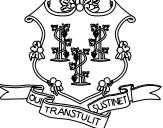
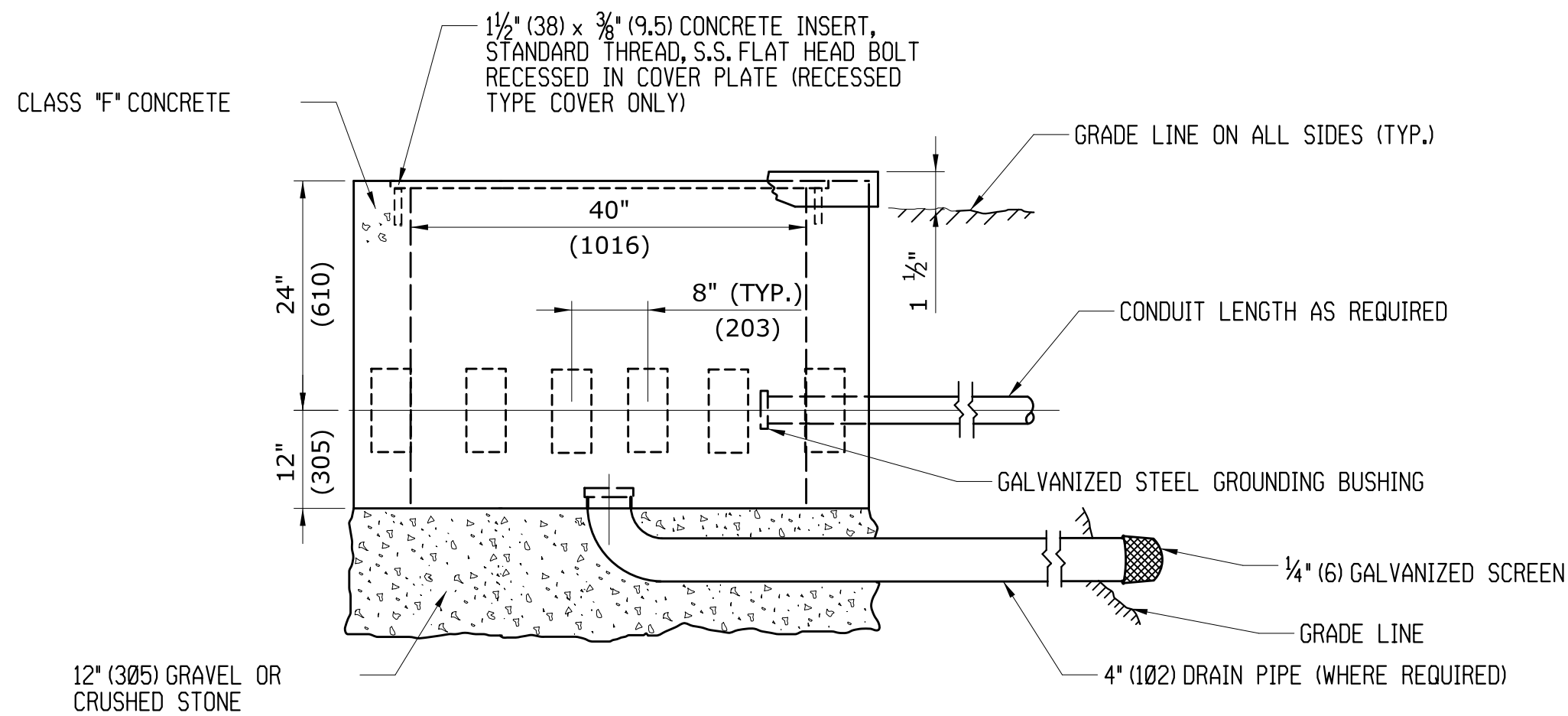
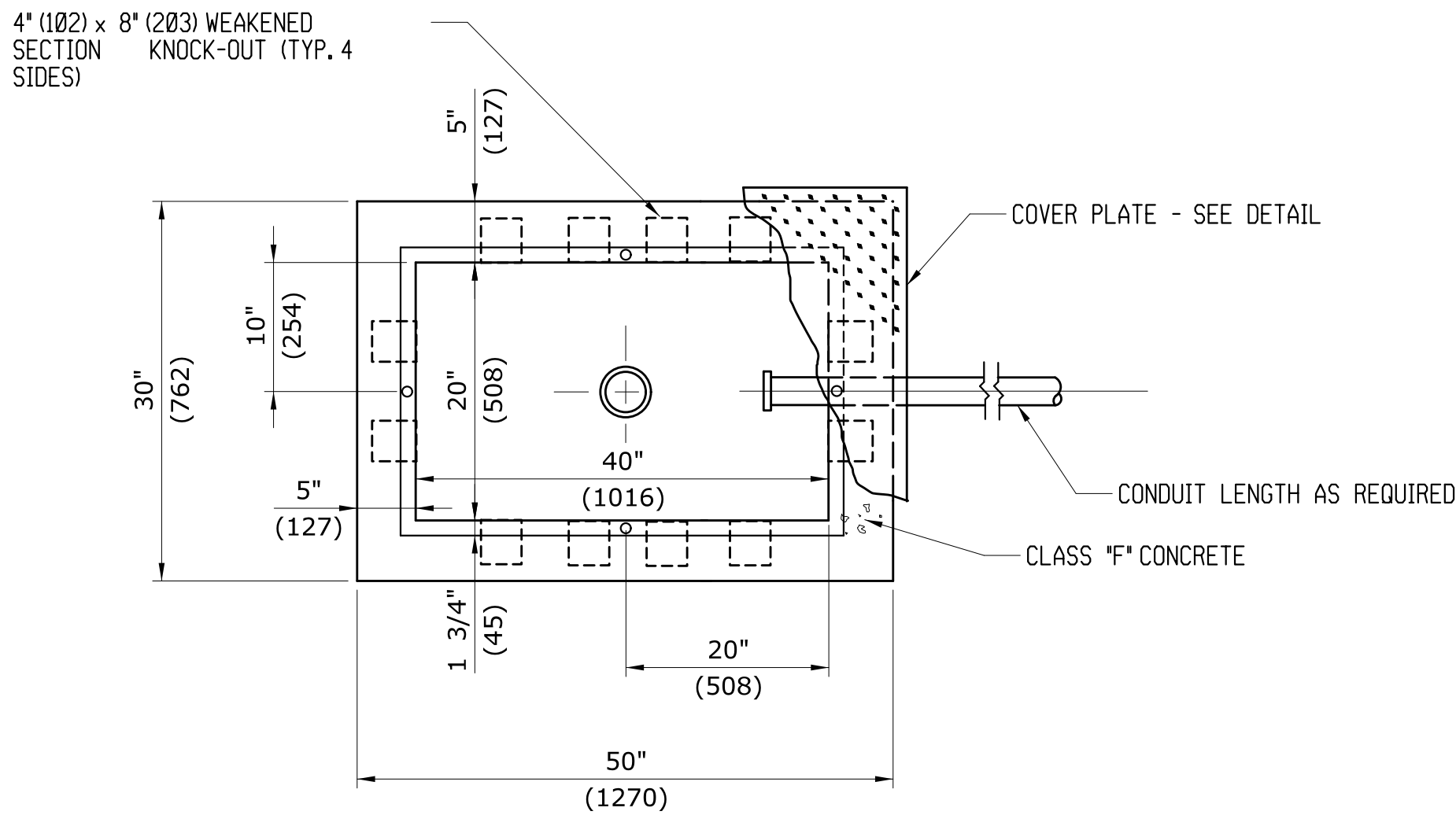
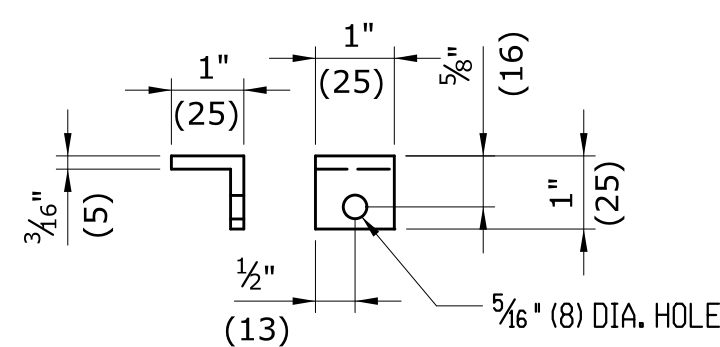


					THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.	DESIGNER/DRAFTER: - CHECKED BY: - NO SCALE	 STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION Filename: ...\\CTDOT_ILLUMINATION.GD.dgn	SIGNATURE/ BLOCK: OFFICE OF ENGINEERING APPROVED BY: - - - ISSUE DATE: 6/6/14	PROJECT TITLE: - - -	TOWN: - - - DRAWING TITLE: BRIDGE INSPECTION RECEPTACLES	PROJECT NO. - DRAWING NO. - SHEET NO.
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 7/21/2014							



CONCRETE HANDHOLE - TYPE W

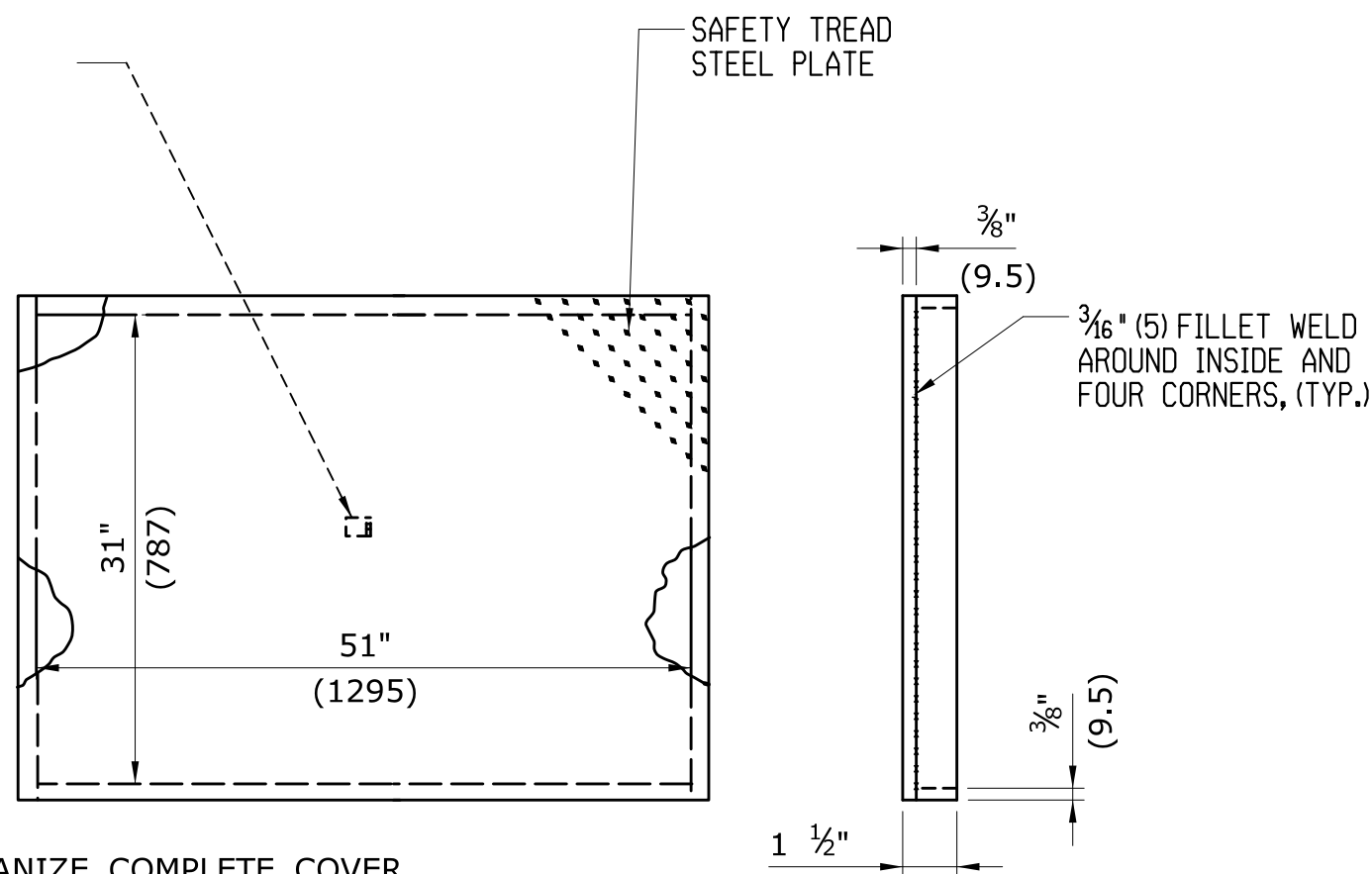
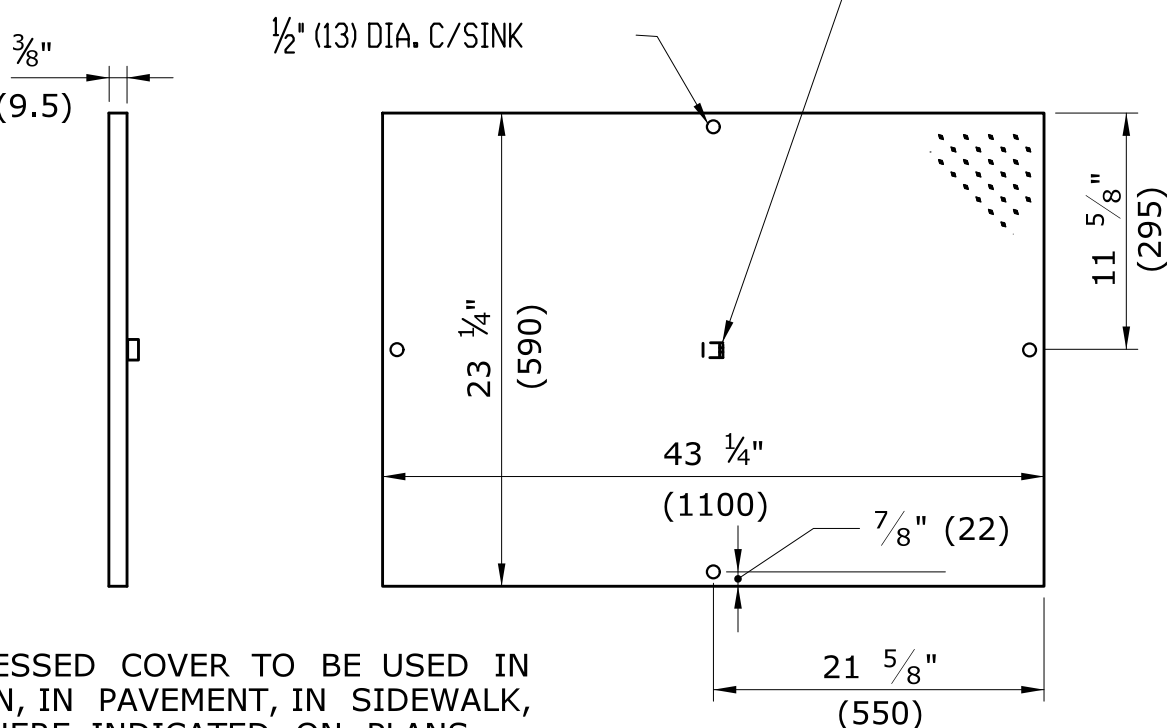


*NOTE:
ATTACH 72" (1830) LENGTH OF NO. 8 GROUND WIRE TO GROUNDING TAB WITH ONE HOLE LUG, 3/4" (M6) x 3/4" (20) SST HEX HEAD BOLT, AND SST FLAT WASHER. ATTACH FREE END OF GROUND WIRE TO NO. 8 BARE GROUND WIRE IN HANDHOLE.

STEEL GROUNDING TAB

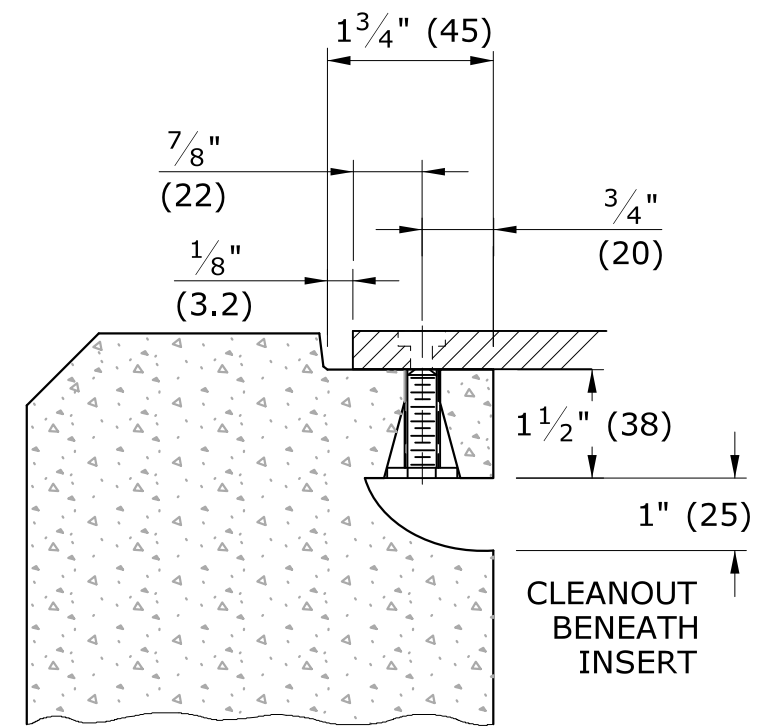
* RECESSED COVER TO BE USED IN MEDIAN, IN PAVEMENT, IN SIDEWALK, OR WHERE INDICATED ON PLANS

RECESSED TYPE COVER

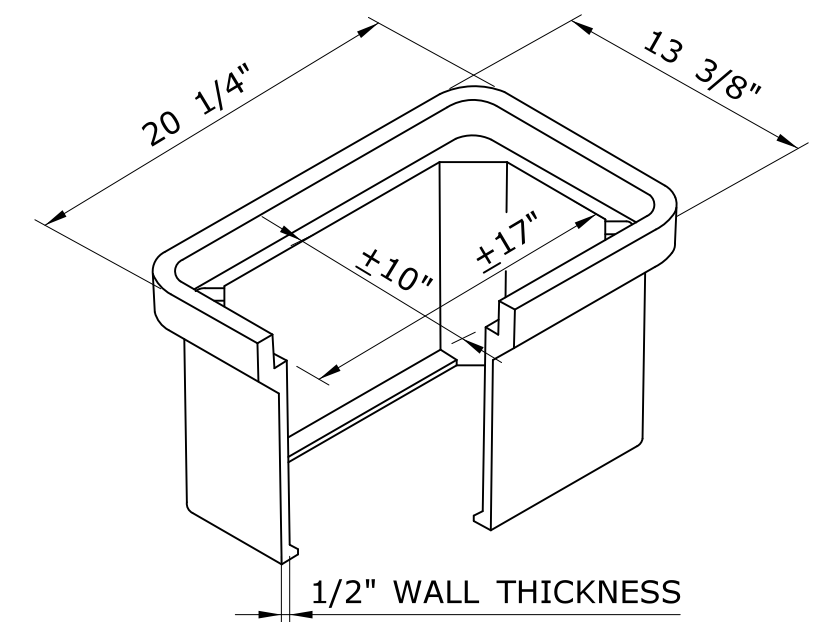
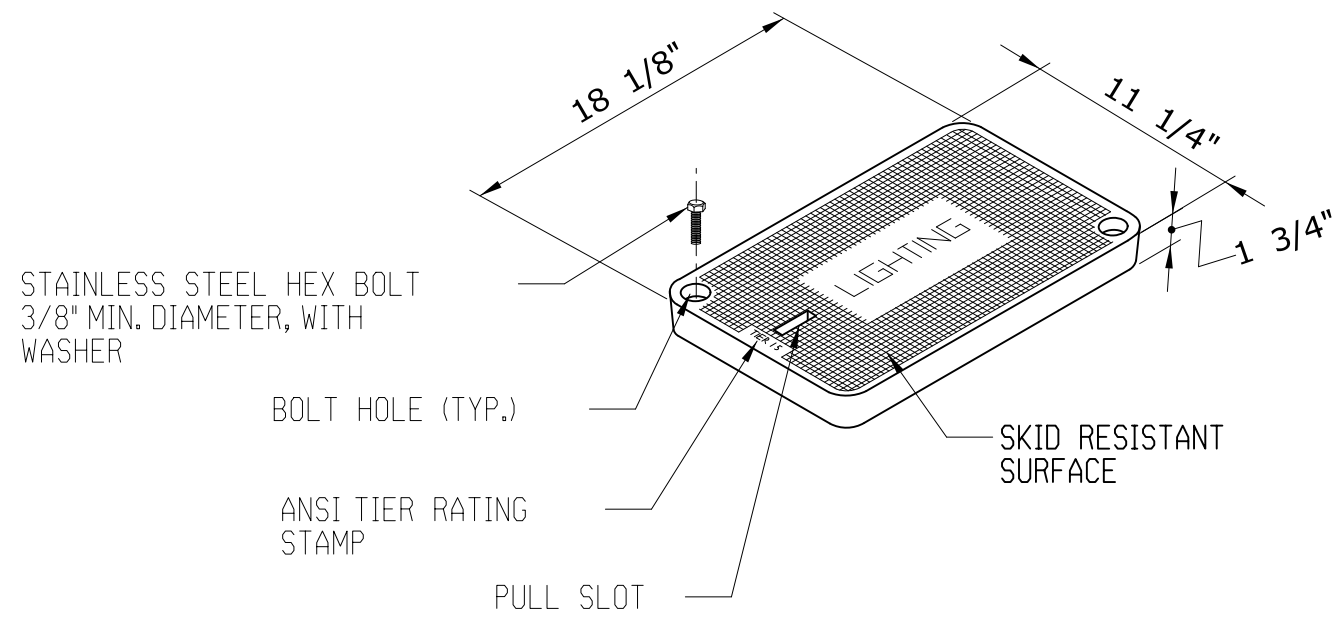
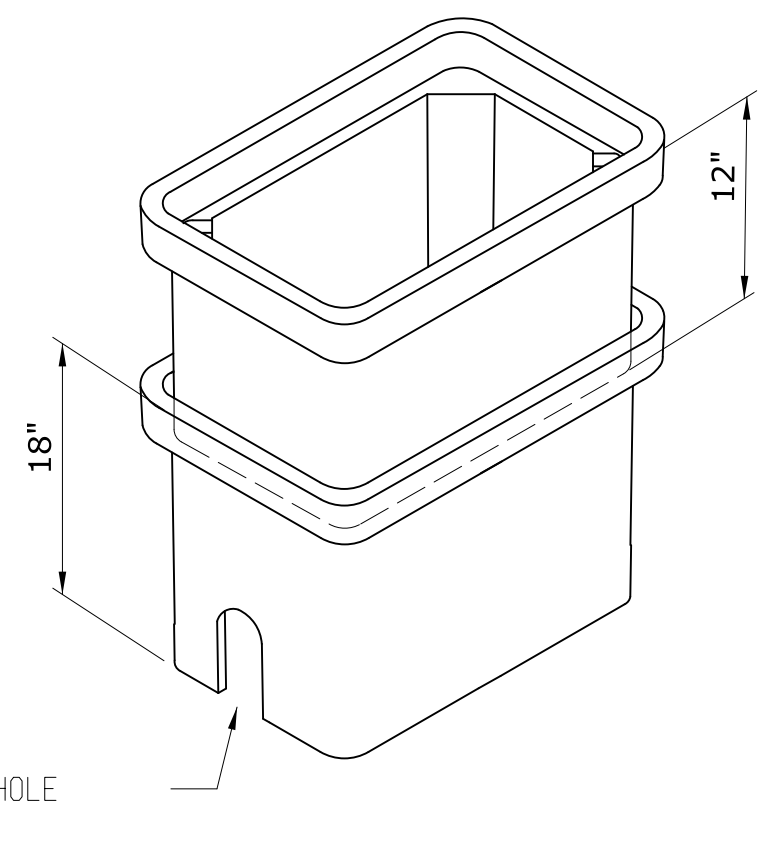
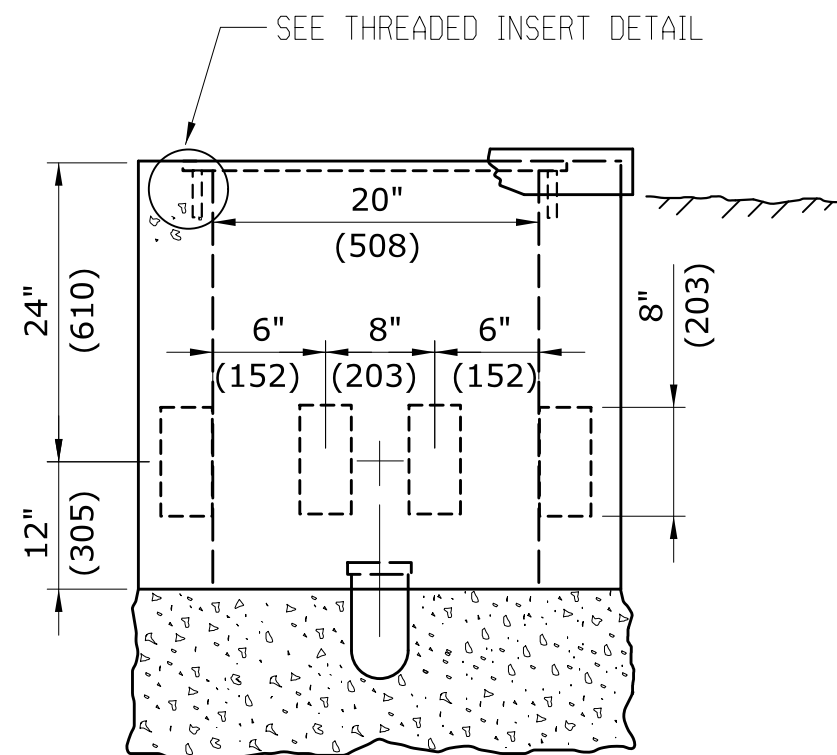


* GALVANIZE COMPLETE COVER ASSEMBLY AFTER WELDING

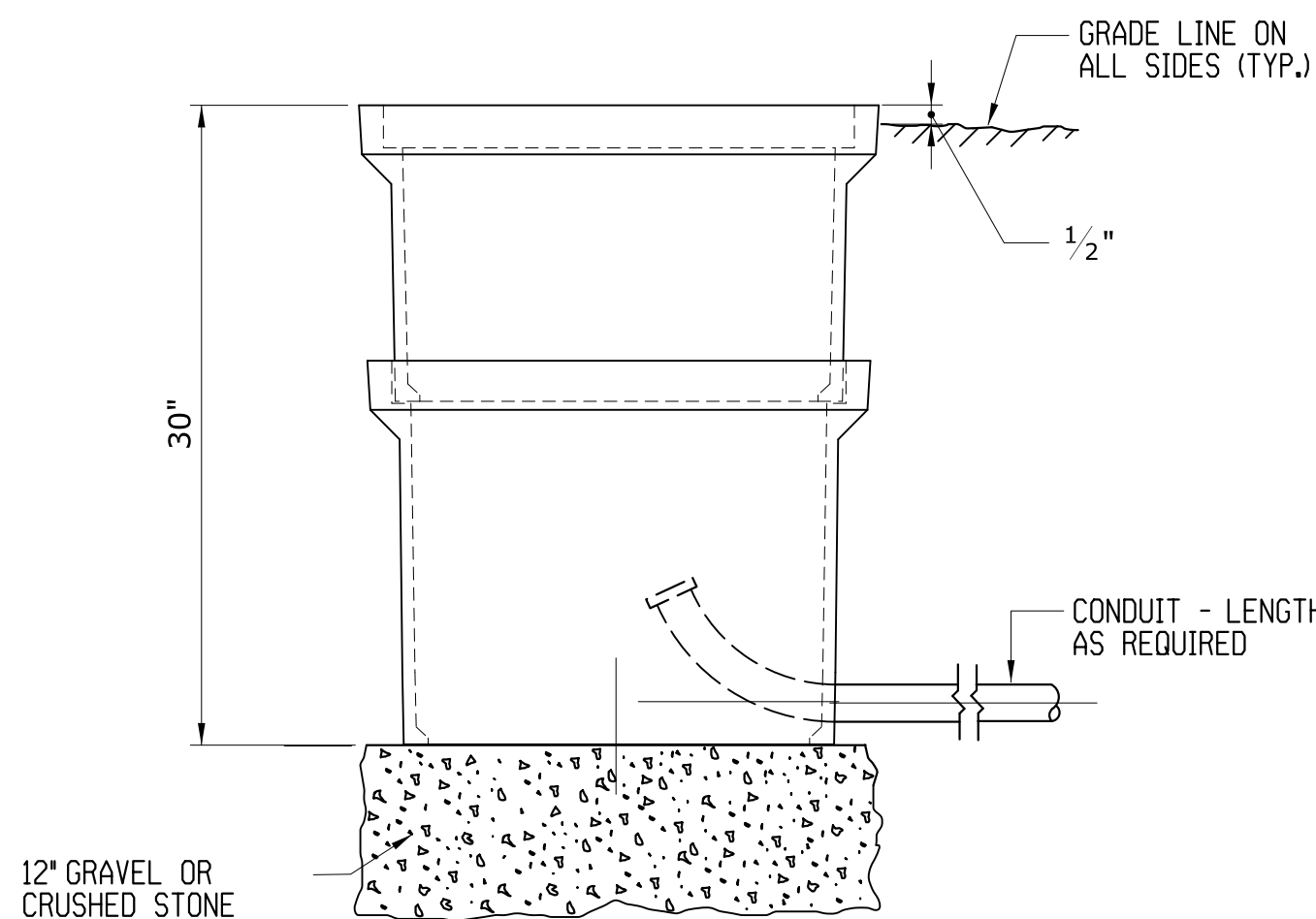
OVERLAP TYPE COVER FOR CONCRETE HANDHOLE - TYPE W



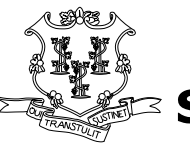
THREADED INSERT

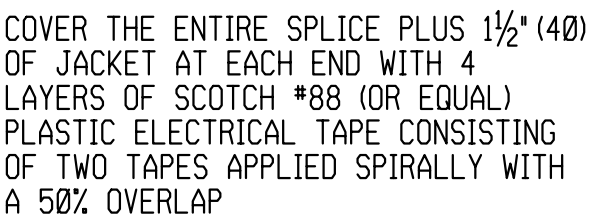



PRECAST POLYMER HANDHOLE

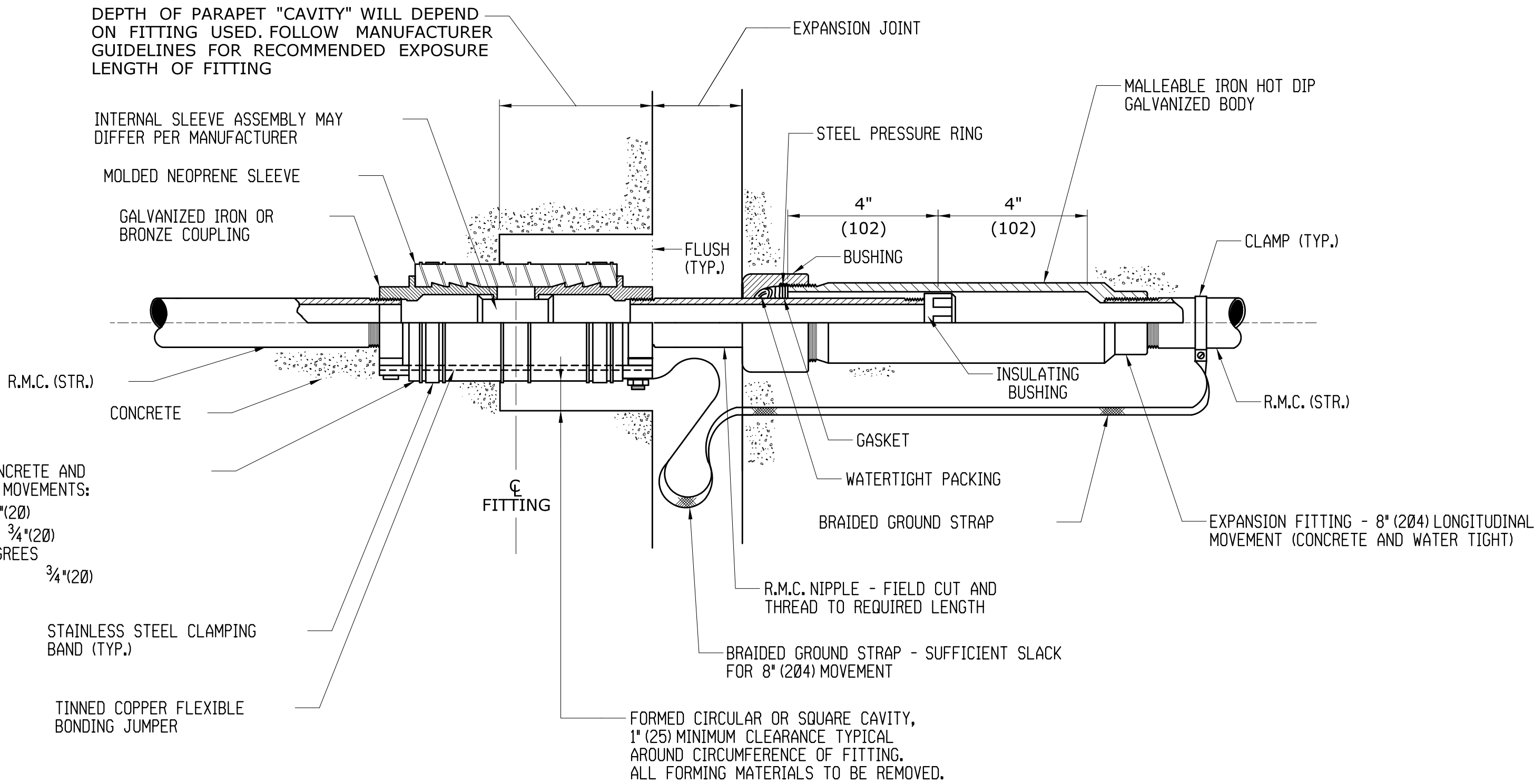


POLYMER HANDHOLE INSTALLATION

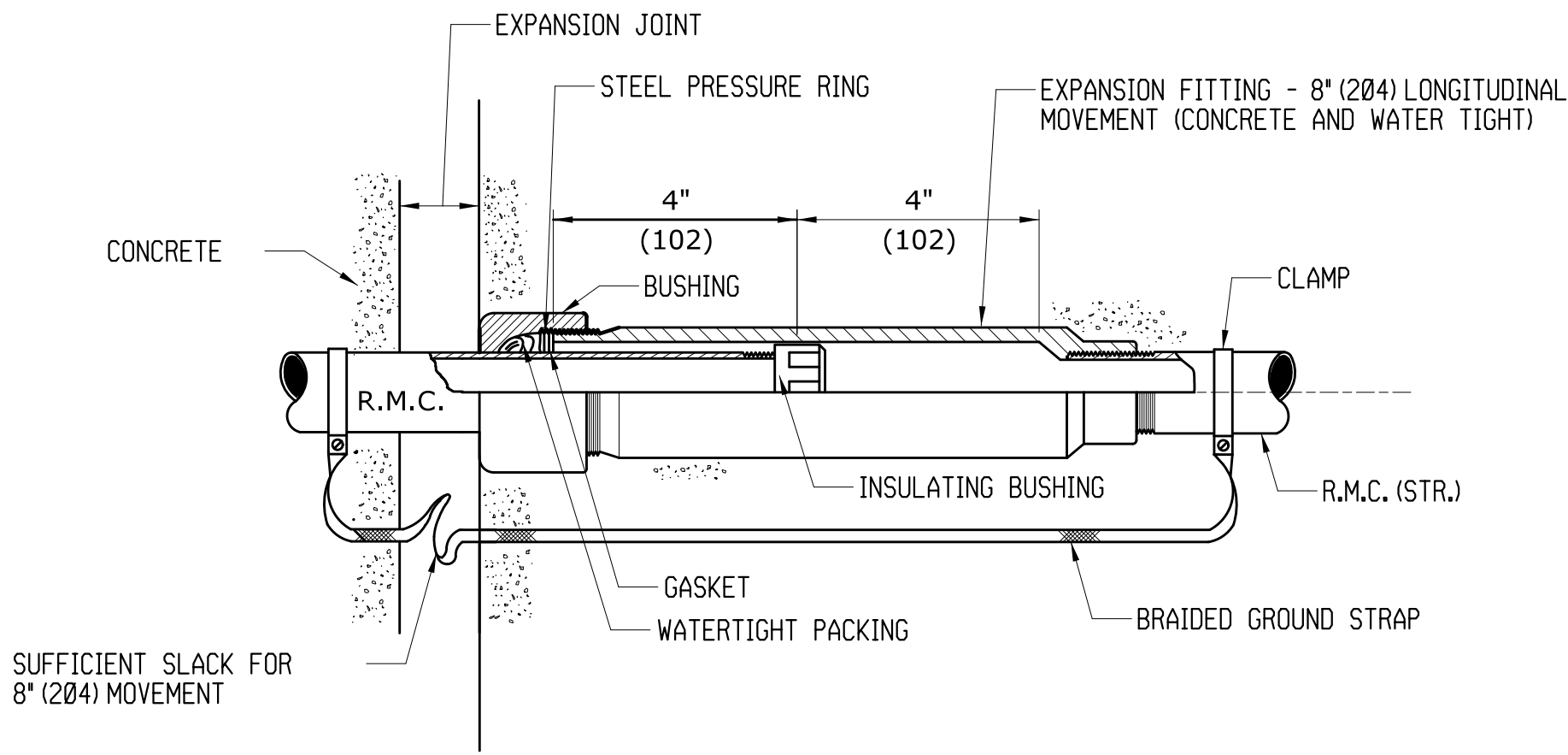
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 7/21/2014	DESIGNER/DRAFTER: MSB CHECKED BY: JA NO SCALE	 STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION Filename: ...\\CTDOT_ILLUMINATION.GD.dgn	SIGNATURE/ BLOCK: OFFICE OF ENGINEERING APPROVED BY: DATE: ISSUE DATE: 6/6/14	PROJECT TITLE: - - -	TOWN: - -	PROJECT NO. - DRAWING NO. - SHEET NO. \$\$\$
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				THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.		DESIGNER/DRAFTER: MSB CHECKED BY: JA NO SCALE		 STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION		SIGNATURE/ BLOCK: - - - APPROVED BY: - - - ISSUE DATE: 6/6/14		PROJECT TITLE:		TOWN: - - - DRAWING TITLE: ELECTRICAL CONNECTIONS		PROJECT NO. - DRAWING NO. - SHEET NO.	
REV.	DATE	REVISION DESCRIPTION		SHEET NO.	Plotted Date: 7/21/2014			Filename: ...CTDOT_ILLUMINATION.GD.dgn									




EXPANSION FITTING TYPE 2

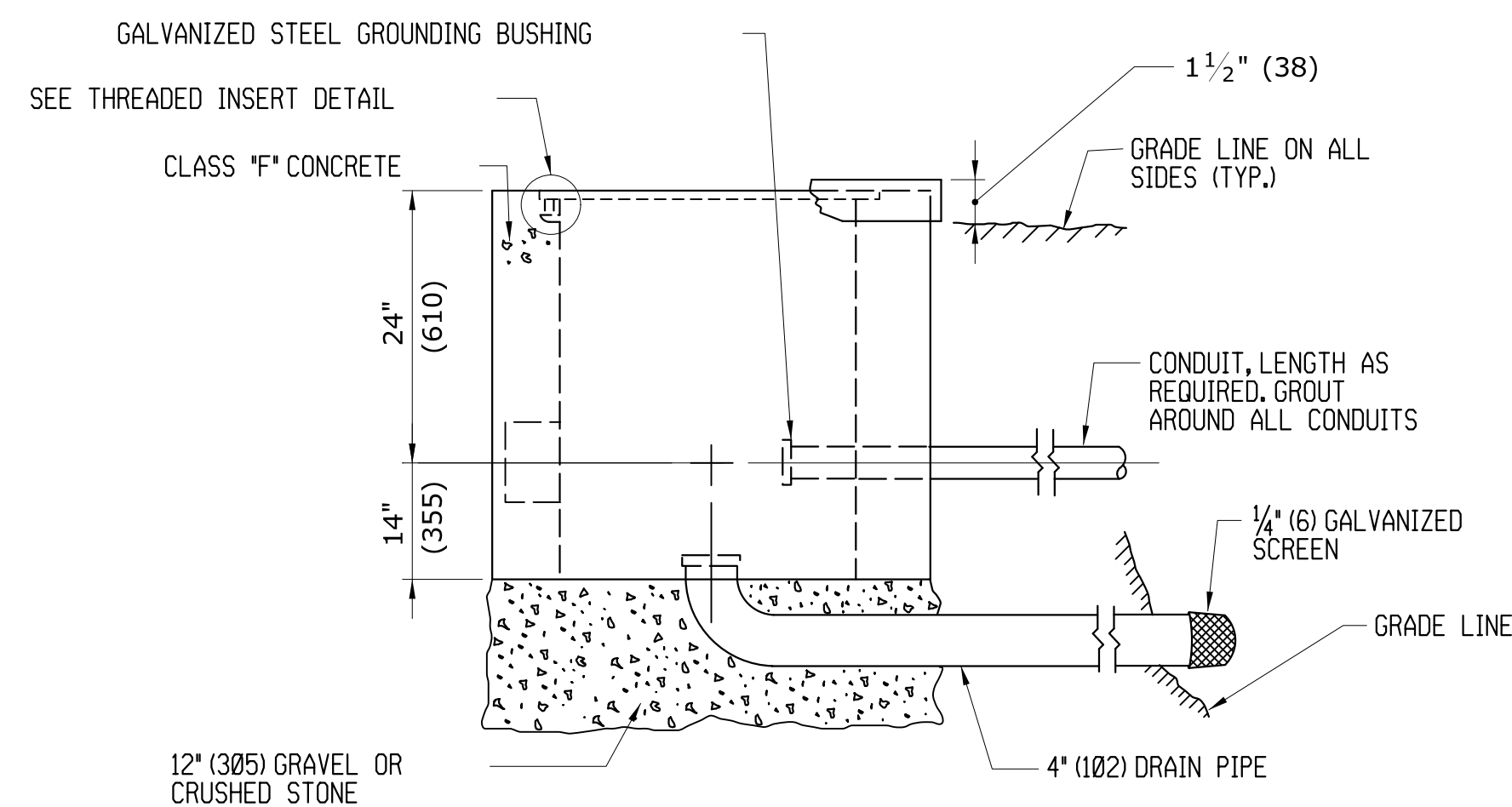


EXPANSION FITTING TYPE 1

NOTES:

- 1) TYPE 1 CONDUIT EXPANSION FITTINGS SHALL BE REQUIRED AT ALL EXPANSION JOINT LOCATIONS IN CAST-IN-PLACE CONCRETE RETAINING WALLS SHARING COMMON PILE SUPPORTED FOOTINGS.
- 2) TYPE 2 CONDUIT EXPANSION FITTINGS SHALL BE REQUIRED AT ALL BRIDGE EXPANSION JOINTS. TYPE 2 CONDUIT EXPANSION FITTINGS ARE SUITABLE AT ALL BRIDGE JOINT LOCATIONS WITH TOTAL LONGITUDINAL THERMAL MOVEMENTS OF 8" (200mm) OR LESS AND TRANSVERSE MOVEMENTS OF 1.5" (38mm) OR LESS.
- 3) TYPE 2 CONDUIT EXPANSION FITTINGS SHALL BE REQUIRED AT ALL EXPANSION JOINT LOCATIONS IN CAST-IN-PLACE RETAINING WALLS WHERE THE FOUNDATION TRANSITIONS FROM A PILE SUPPORTED FOUNDATION TO A SPREAD FOOTING FOUNDATION.
- 4) ORIENTATION OF CONDUIT EXPANSION FITTING SHALL BE FIELD DETERMINED.

				DESIGNER/DRAFTER: MSB	 STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	SIGNATURE/ BLOCK: OFFICE OF ENGINEERING	PROJECT TITLE: - - -	TOWN: -	PROJECT NO. -
				CHECKED BY: JA		APPROVED BY:			DRAWING NO. -
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REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 7/21/2014		Filename: ...\\CTDOT-ILLUMINATION.GD.dgn		DRAWING TITLE: CONDUIT EXPANSION FITTINGS	



NOTE:
ATTACH 72" (1830) LENGTH OF NO. 8 GROUND
WIRE TO GROUNDING TAB WITH ONE HOLE LUG,
 $\frac{1}{4}$ " (M6) x $\frac{3}{4}$ " (20) LG. SST HEX HEAD BOLT,
AND SST FLAT WASHER. ATTACH FREE END
OF GROUND WIRE TO NO. 8 BARE GROUND
WIRE IN HANDHOLE.

[illegible]



LIGHT STANDARD NOTES:

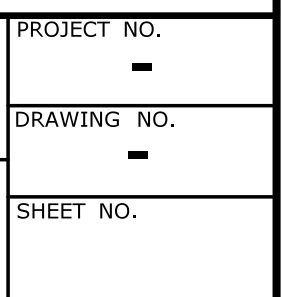
- NON-DESTRUCTIVE TESTING FOR ALUMINUM SHALL BE AS FOLLOWS: A RANDOM 25% OF ALL BASE CONNECTION WELDS SHALL BE INSPECTED IN ACCORDANCE WITH ASTM E-165 STANDARD PRACTICE FOR LIQUID PENETRANT INSPECTION METHOD.

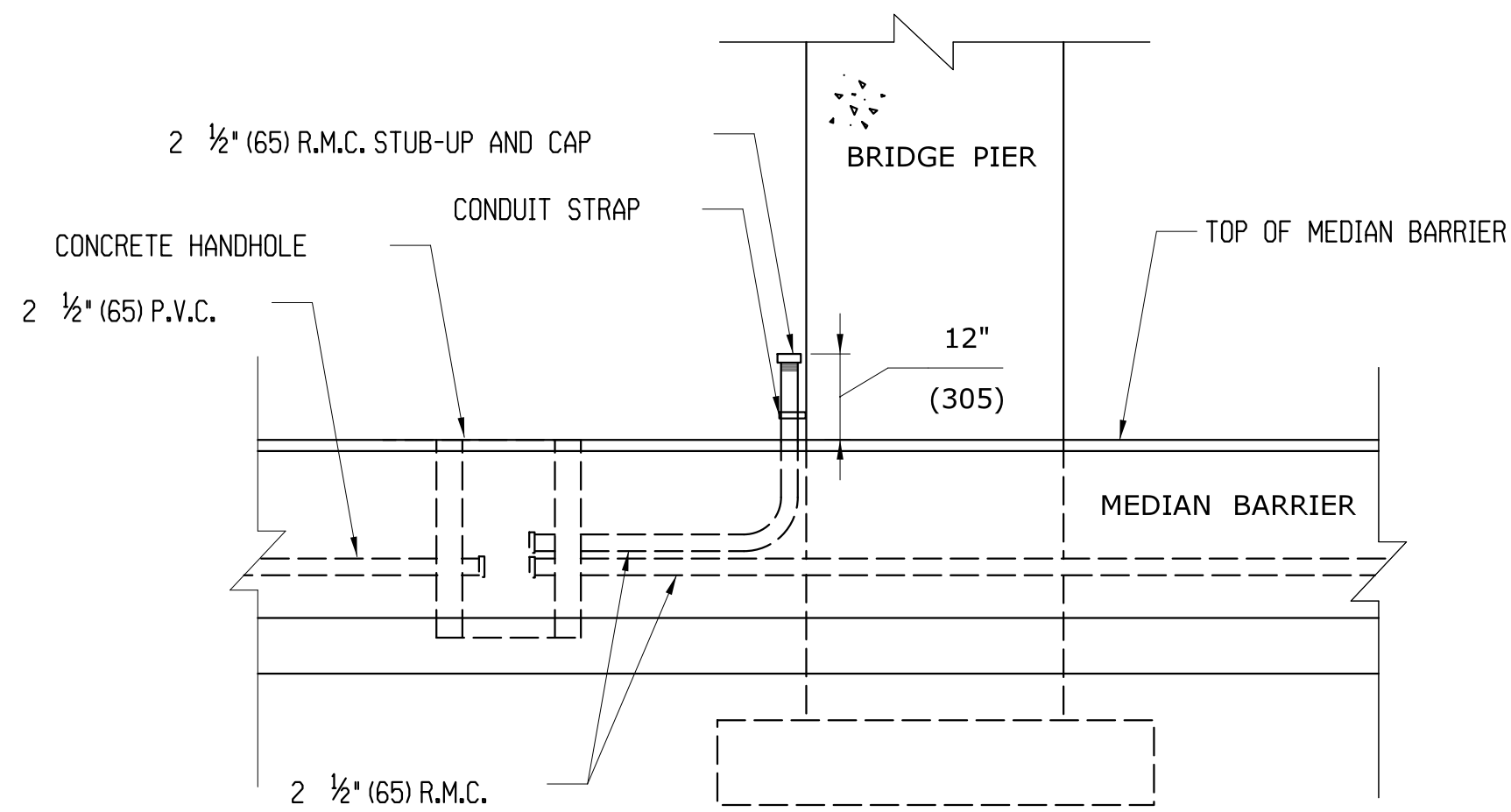


3/4" (20) GROUND ROD SLEEVE
5/8" (16) x 10' (3050) GROUND ROD
TO BE INSTALLED AS DIRECTED



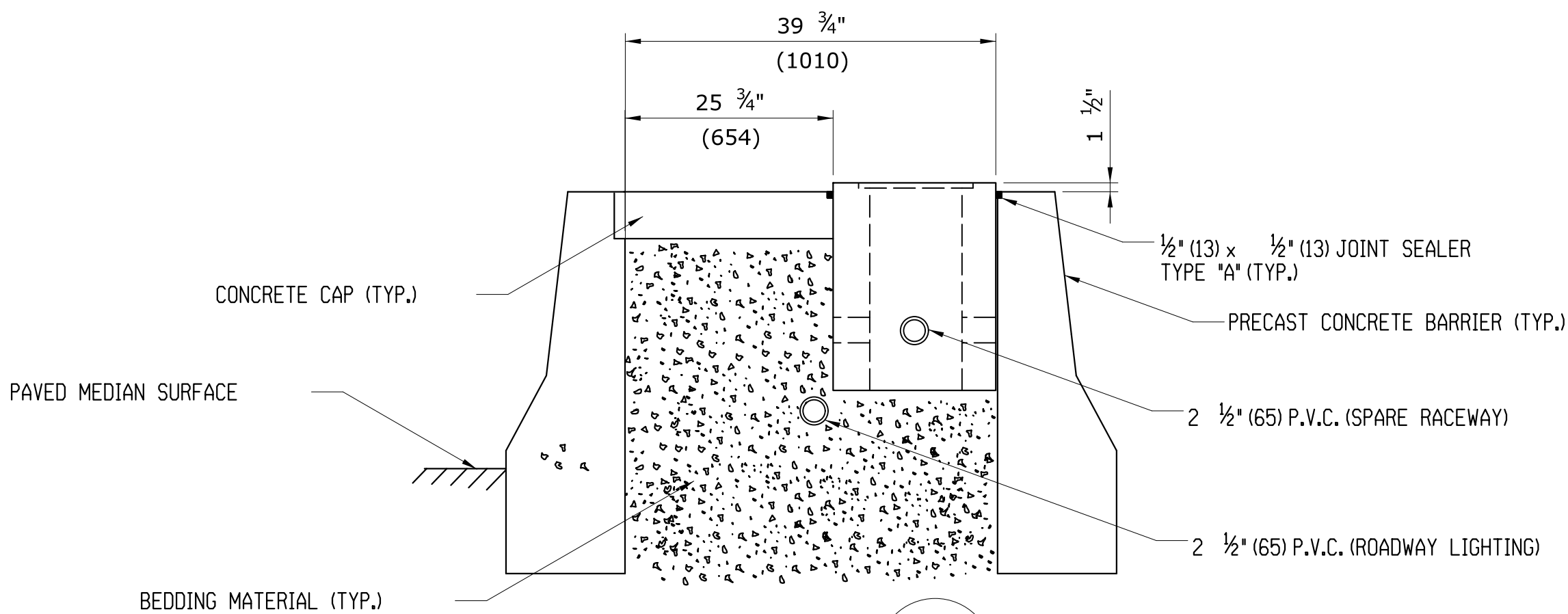
LIGHT STANDARD FOUNDATION (TYPE I)



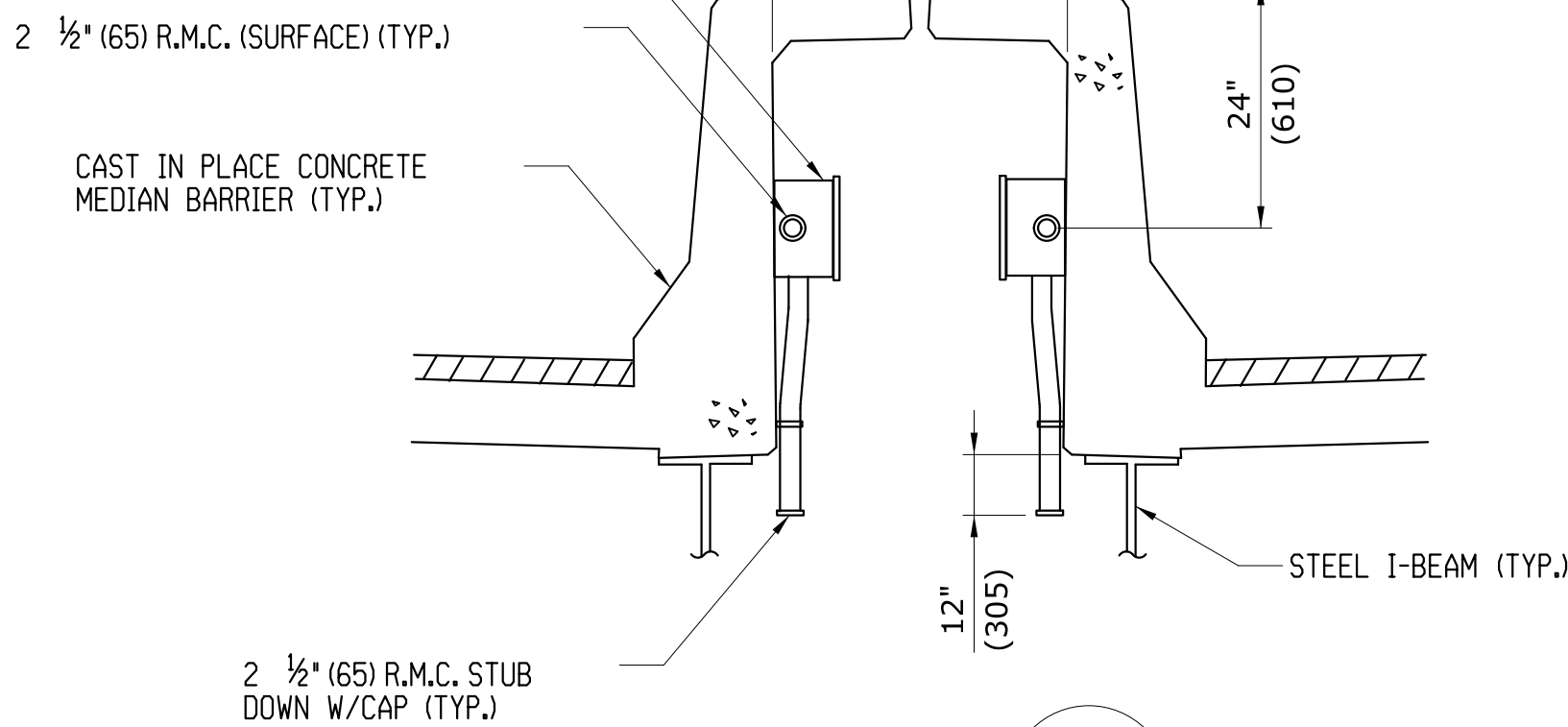


MEDIAN BARRIER AT OVERPASS


TYPICAL ELECTRICAL LAYOUT

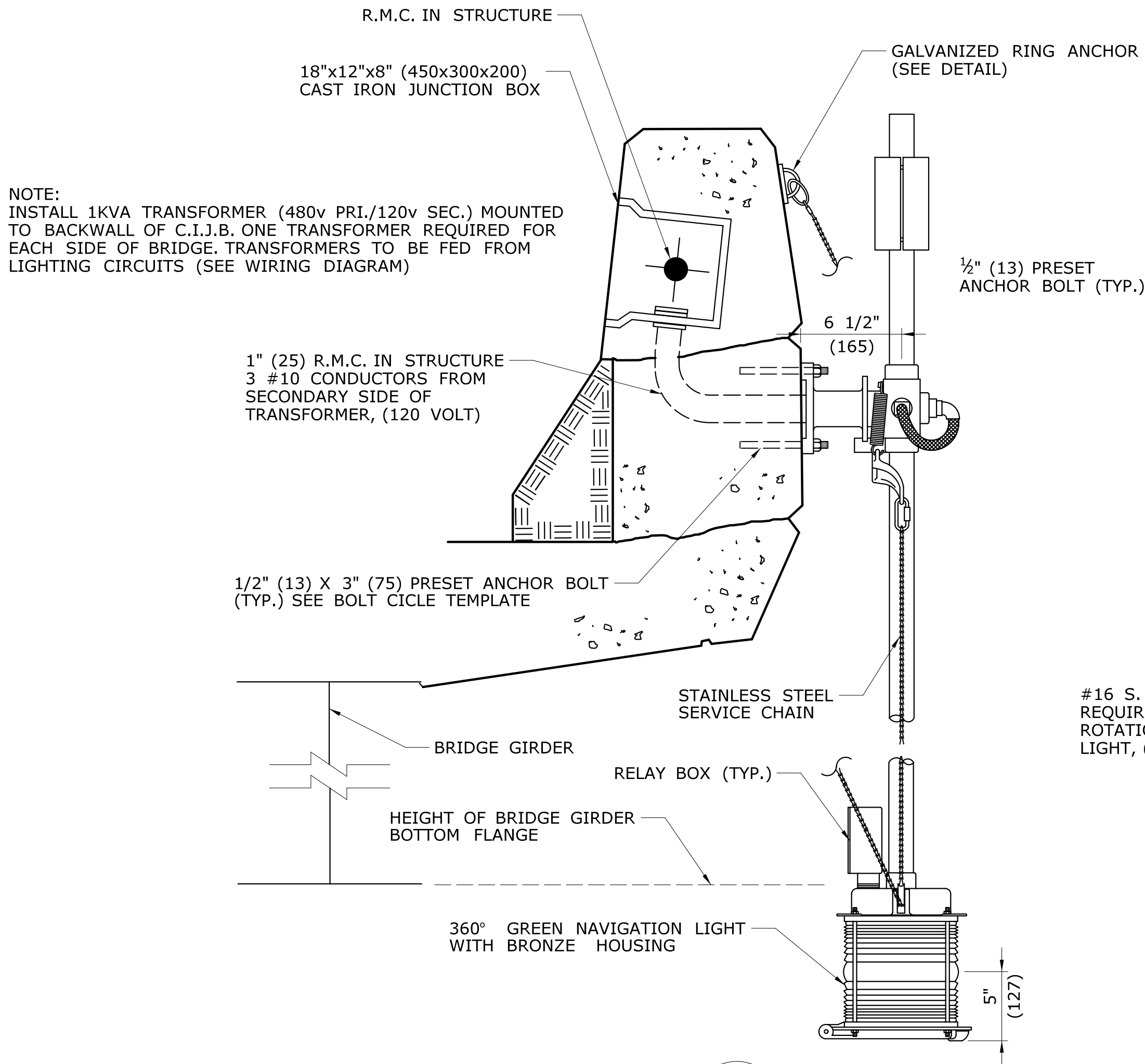


CONCRETE HANDHOLE (TYPE II) IN MEDIAN



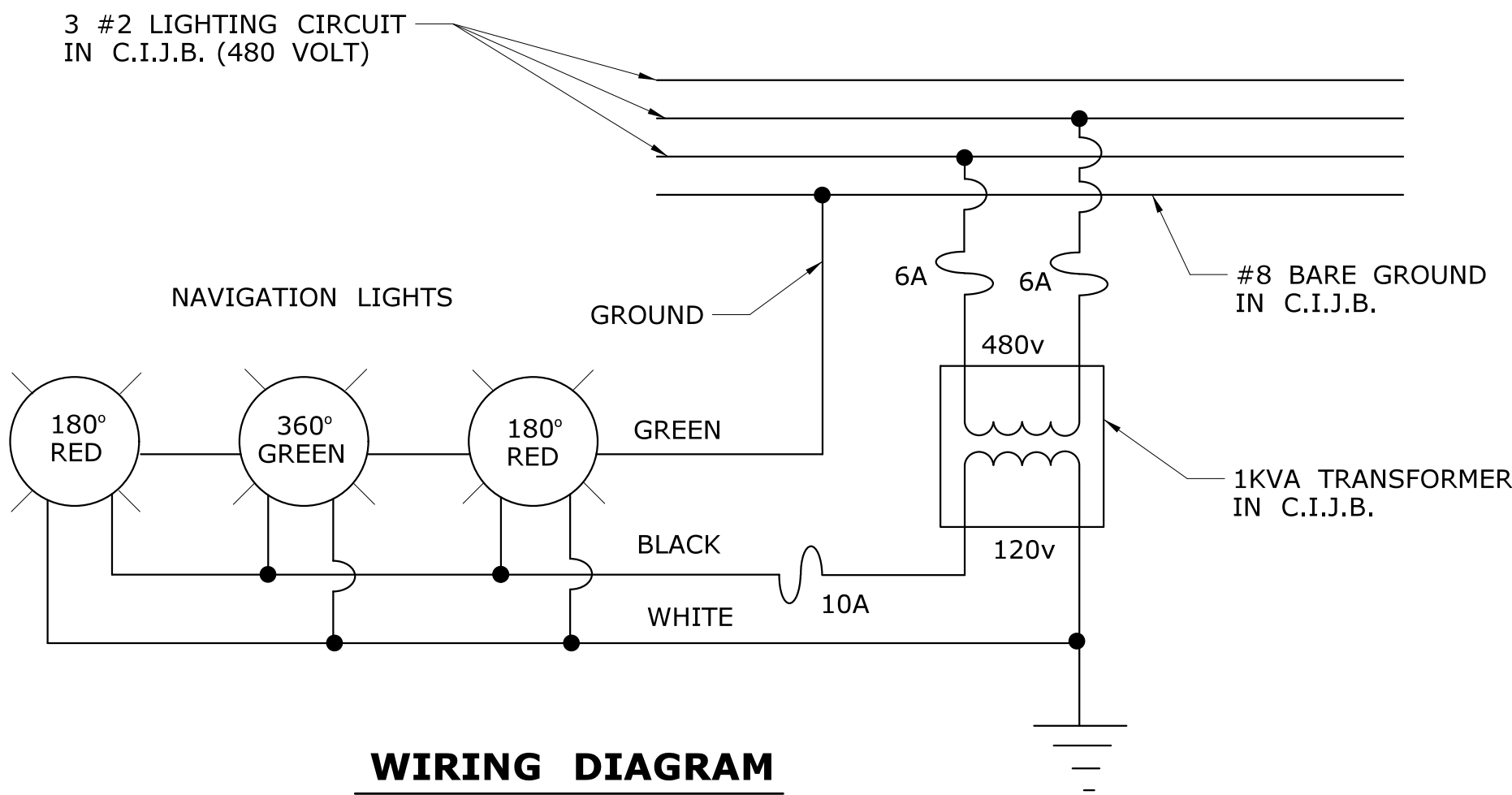
- 1) R.M.C. TERMINATING IN A CONCRETE HANDHOLE SHALL BE THREADED AND SHALL BE CAPPED WITH AN INSULATED BONDING BUSHING WITH GROUND LUG AND TINNED INSERT.
- 2) R.M.C. TERMINATING IN A C.I.J.B. SHALL BE THREADED AND SECURED TO THE C.I.J.B. WITH LOCKNUTS. CONDUIT SHALL BE CAPPED INSIDE OF THE C.I.J.B. WITH INSULATED BONDING BUSHING WITH GROUND LUG AND TINNED INSERT.
- 3) CONDUIT STUB-OUTS SHALL BE THREADED AND CAPPED WITH A MALEABLE IRON CAP.
- 4) P.V.C. TERMINATING IN A CONCRETE HANDHOLE SHALL BE CAPPED WITH A REMOVABLE P.V.C. CAP.
- 5) ALL LIGHT STANDARD FOUNDATIONS AND CONCRETE HANDHOLES SHALL BE SURROUNDED BY A $\frac{1}{2}$ " (13) x $\frac{1}{2}$ " (13) JOINT OF TYPE "A" JOINT SEALER.
- 6) A PULL-LINE SHALL BE INSTALLED IN ALL CONDUITS (EXCEPT R.M.C. STUB-UPS AND STUB-DOWNS). PULL-LINES ENTERING LIGHT STANDARD FOUNDATIONS SHALL BE TIED OFF TO THE FOUNDATION ANCHOR BOLTS.

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REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 7/21/2014						

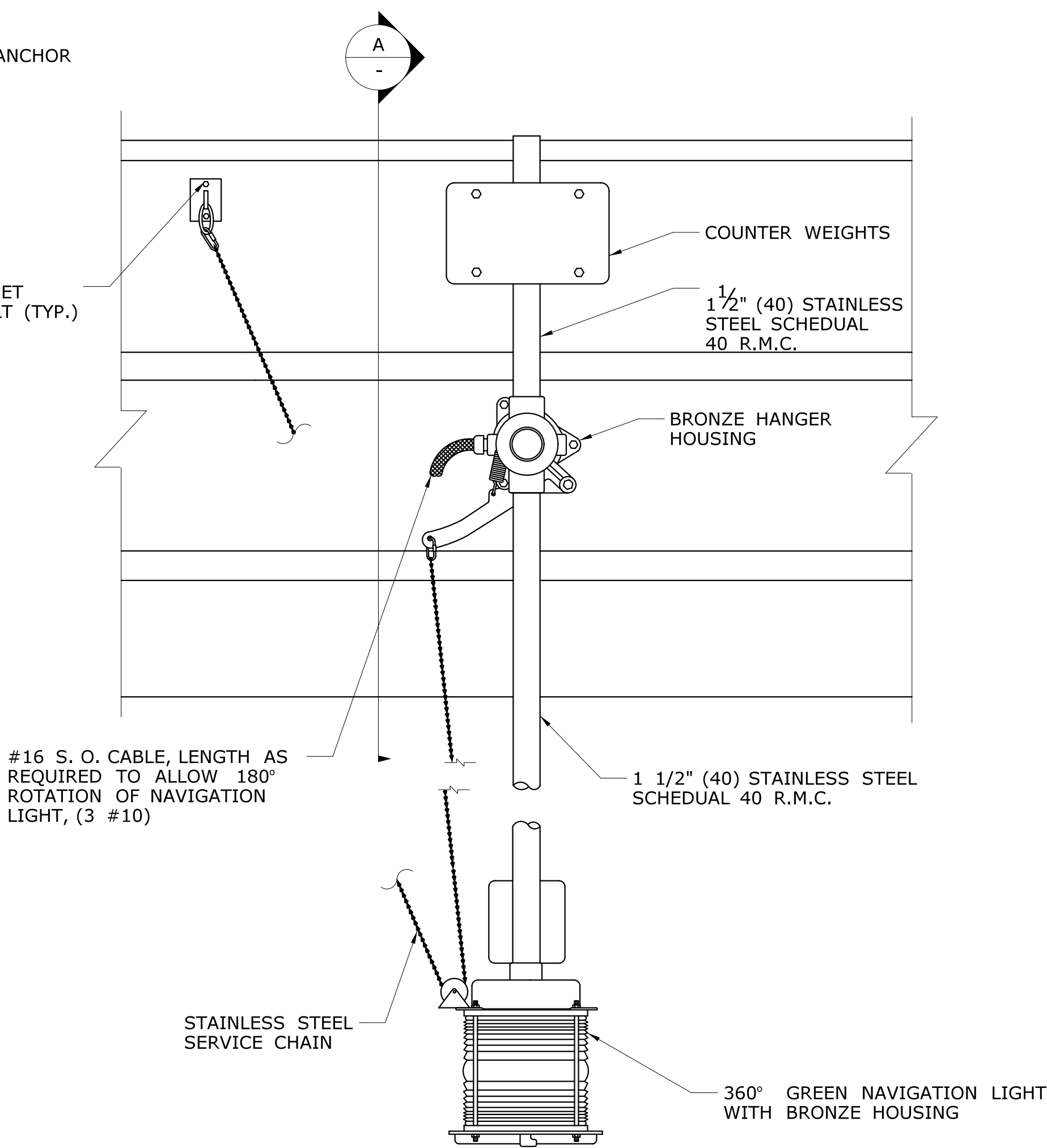


SECTION A

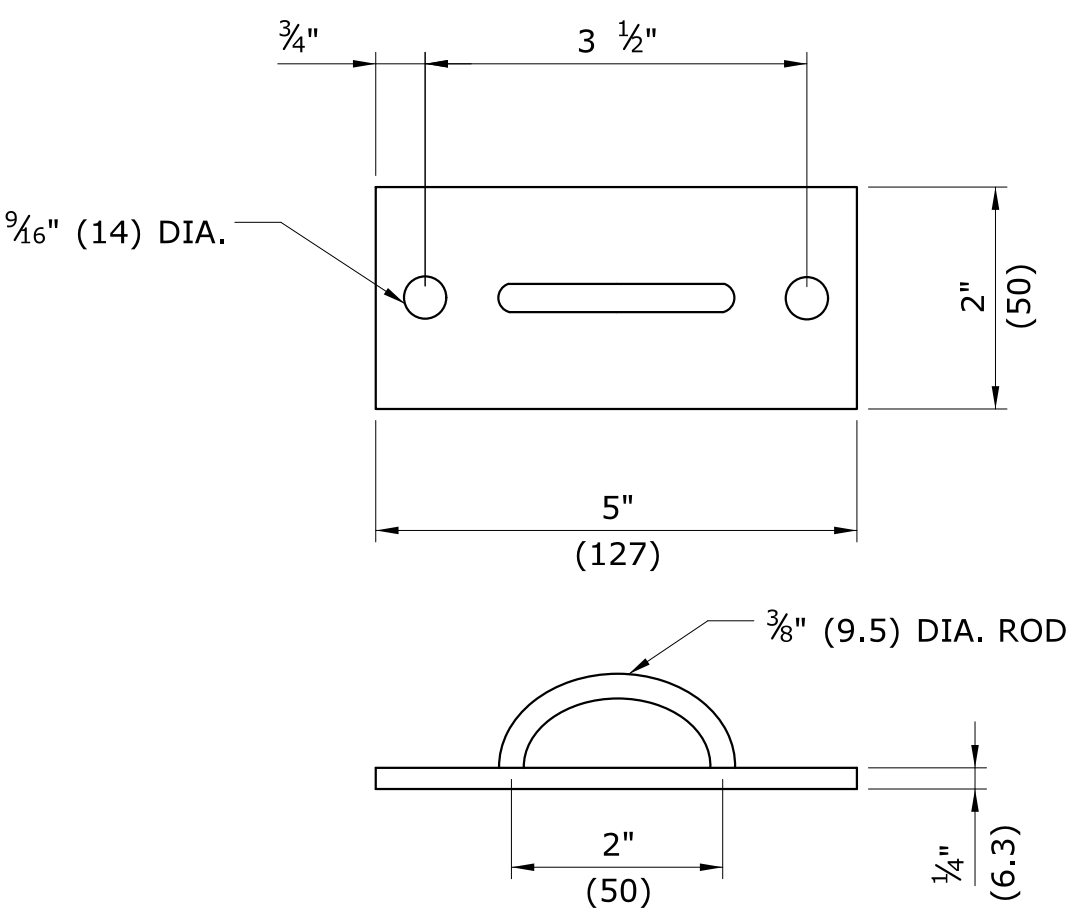
360° GREEN NAVIGATION LIGHT



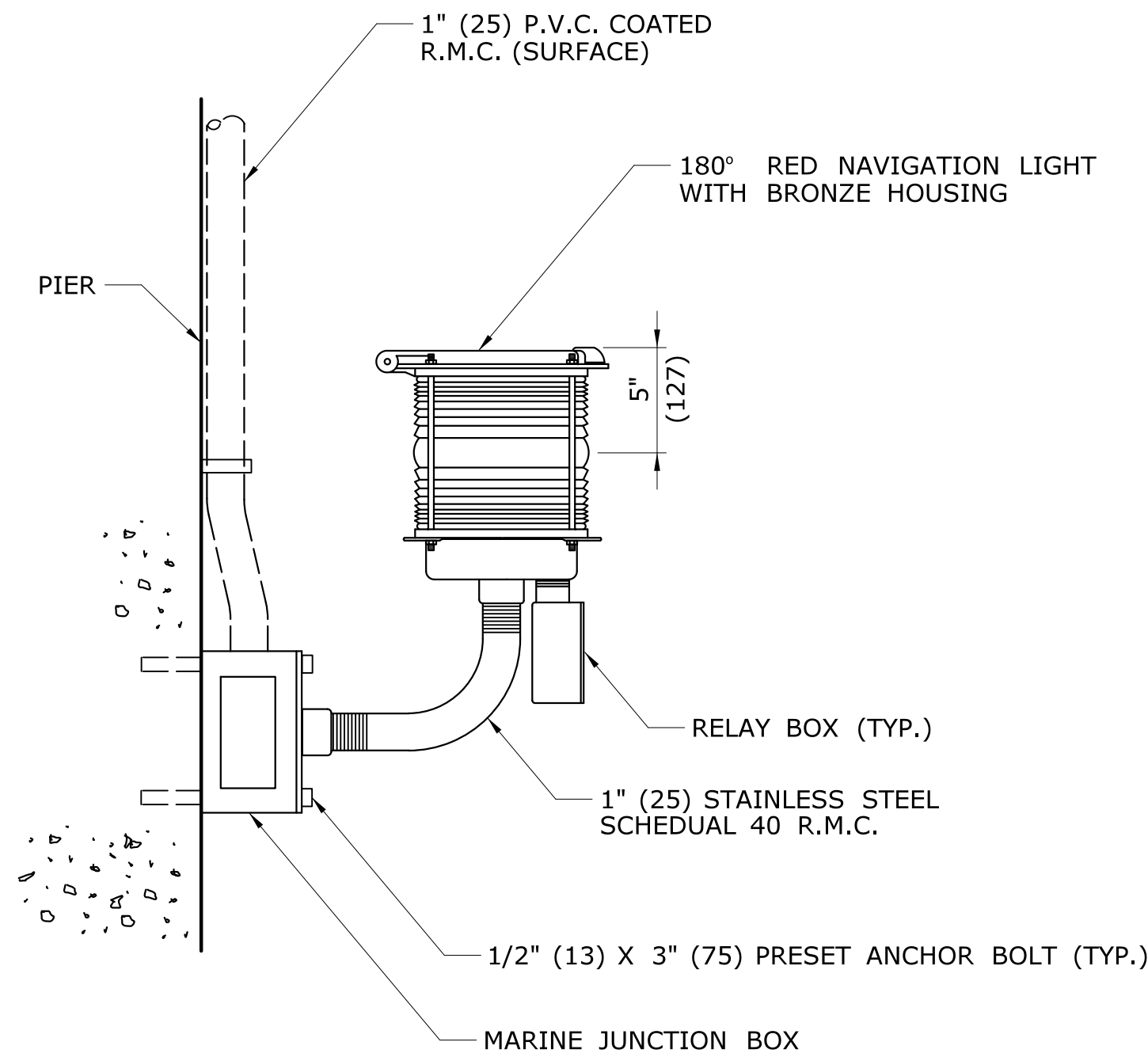
WIRING DIAGRAM



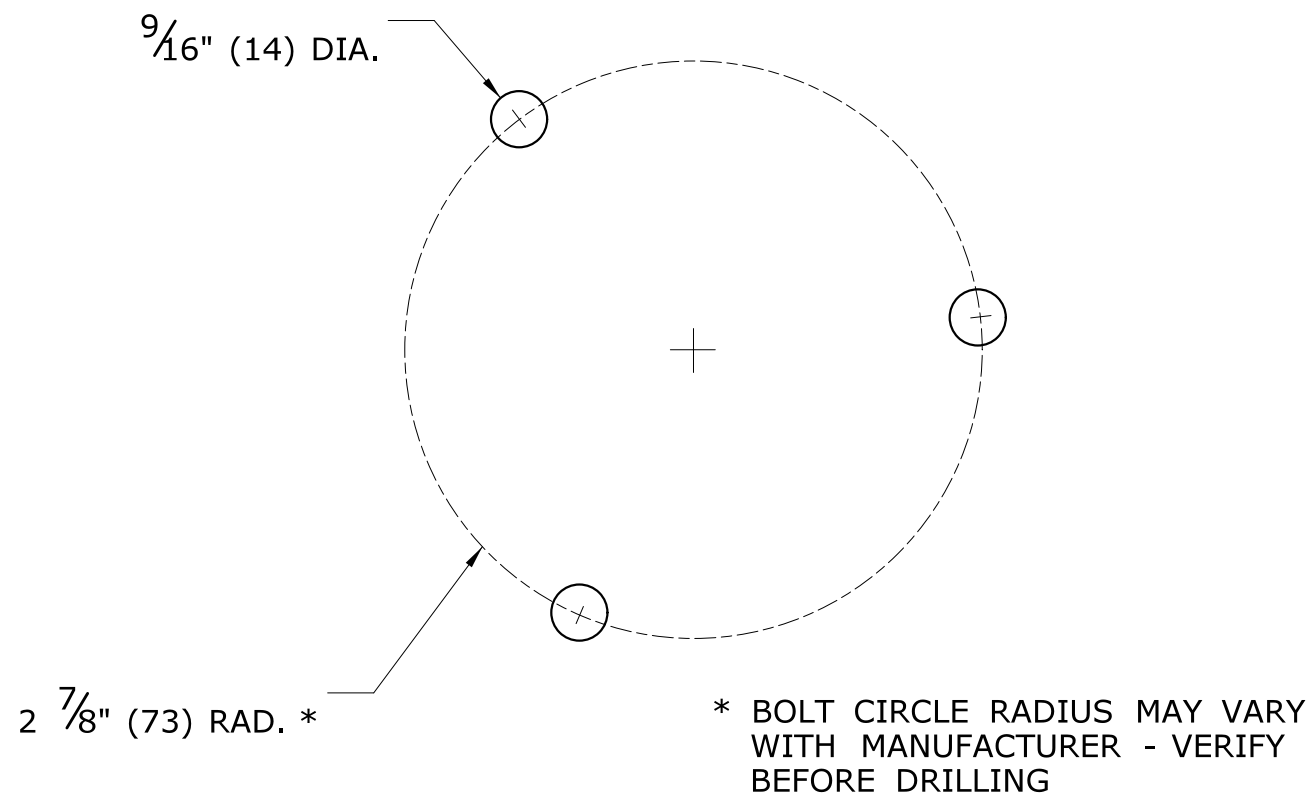
ELEVATION VIEW



GALVANIZED RING ANCHOR



180° RED NAVIGATION LIGHT

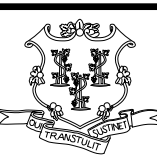


BOLT CIRCLE TEMPLATE

REV.	DATE	REVISION	DESCRIPTION	SHEET NO.	Plotted Date: 7/21/2014

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CHECKED BY: JA
NO SCALE

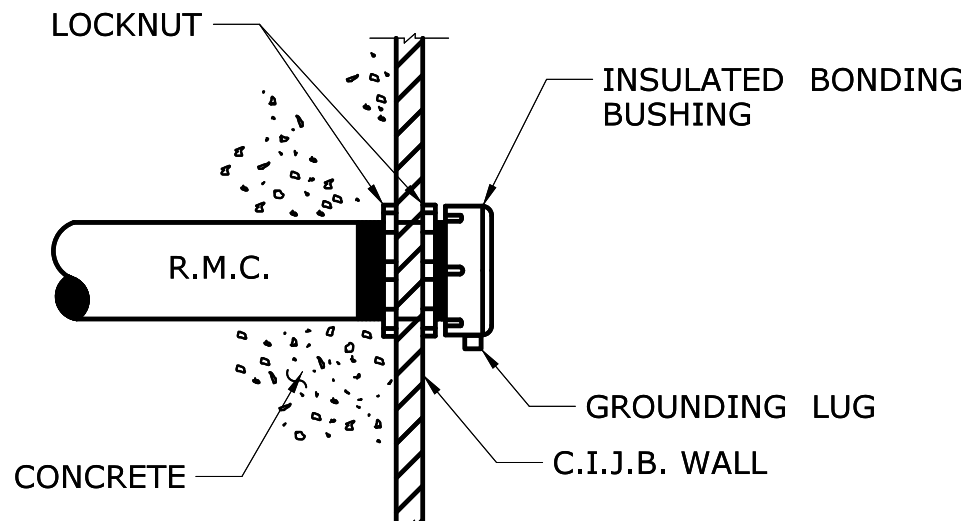
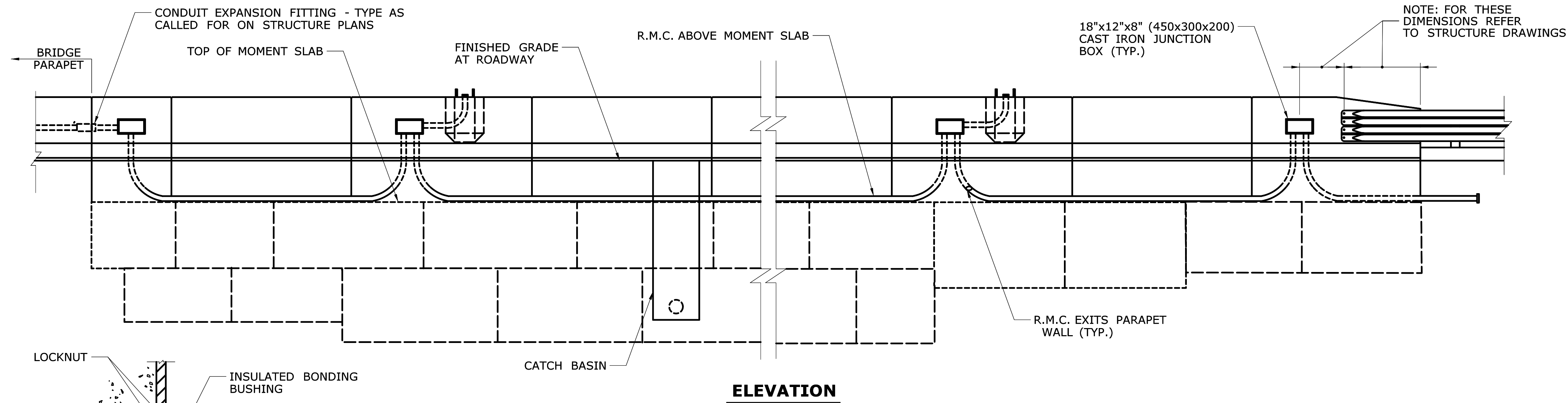
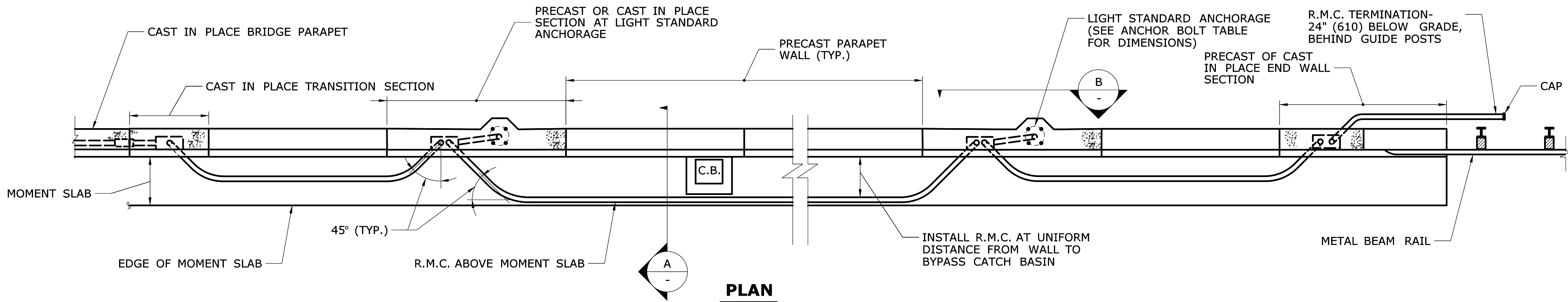
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Filename: ...\\CTDOT_ILLUMINATION.GD.dgn

SIGNATURE/ BLOCK: OFFICE OF ENGINEERING
APPROVED BY: DATE:

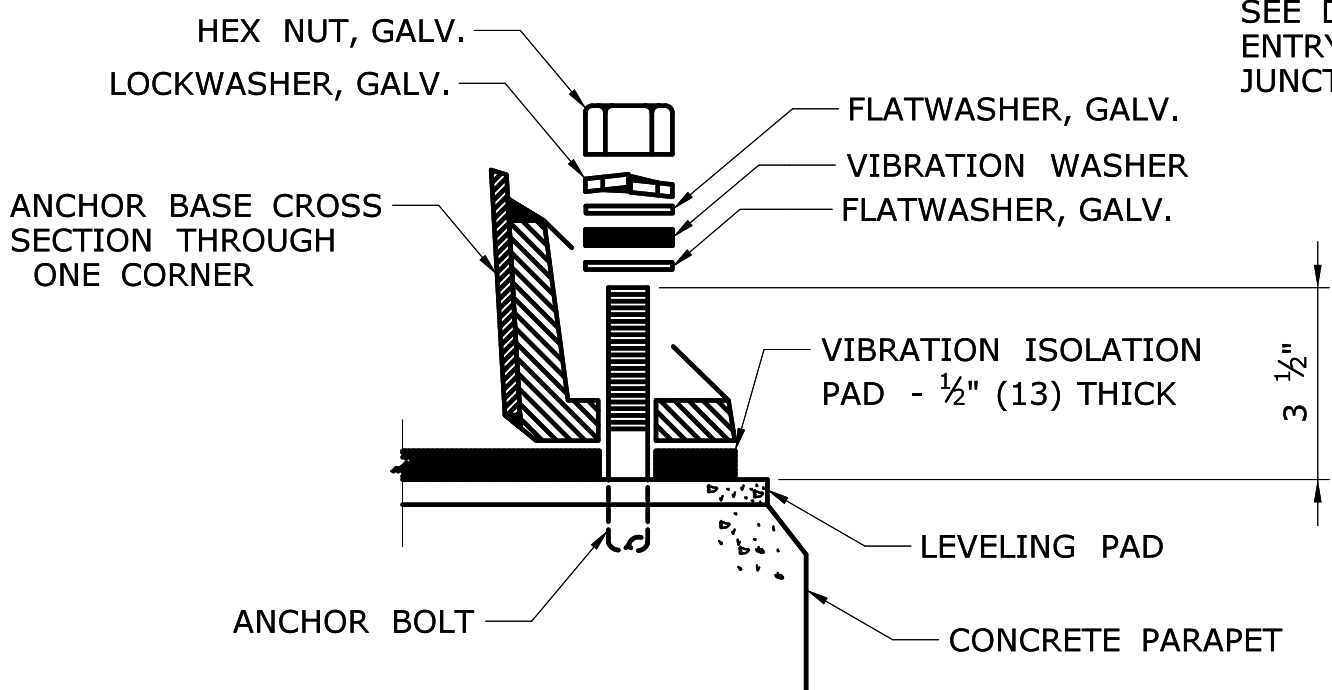
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DRAWING TITLE: NAVIGATION LIGHTS
SHEET NO. \$\$\$

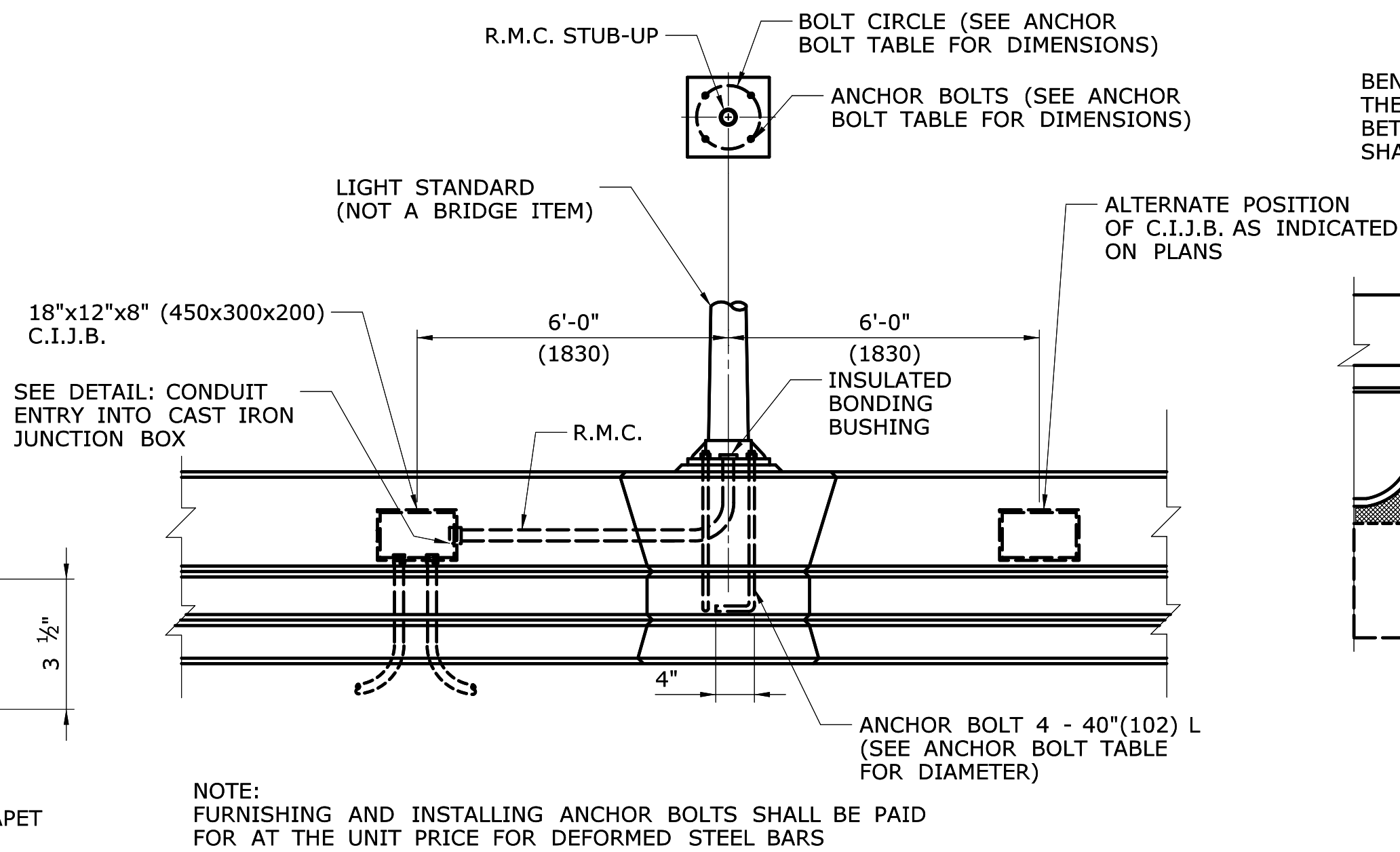
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DRAWING NO. -
SHEET NO. \$\$\$



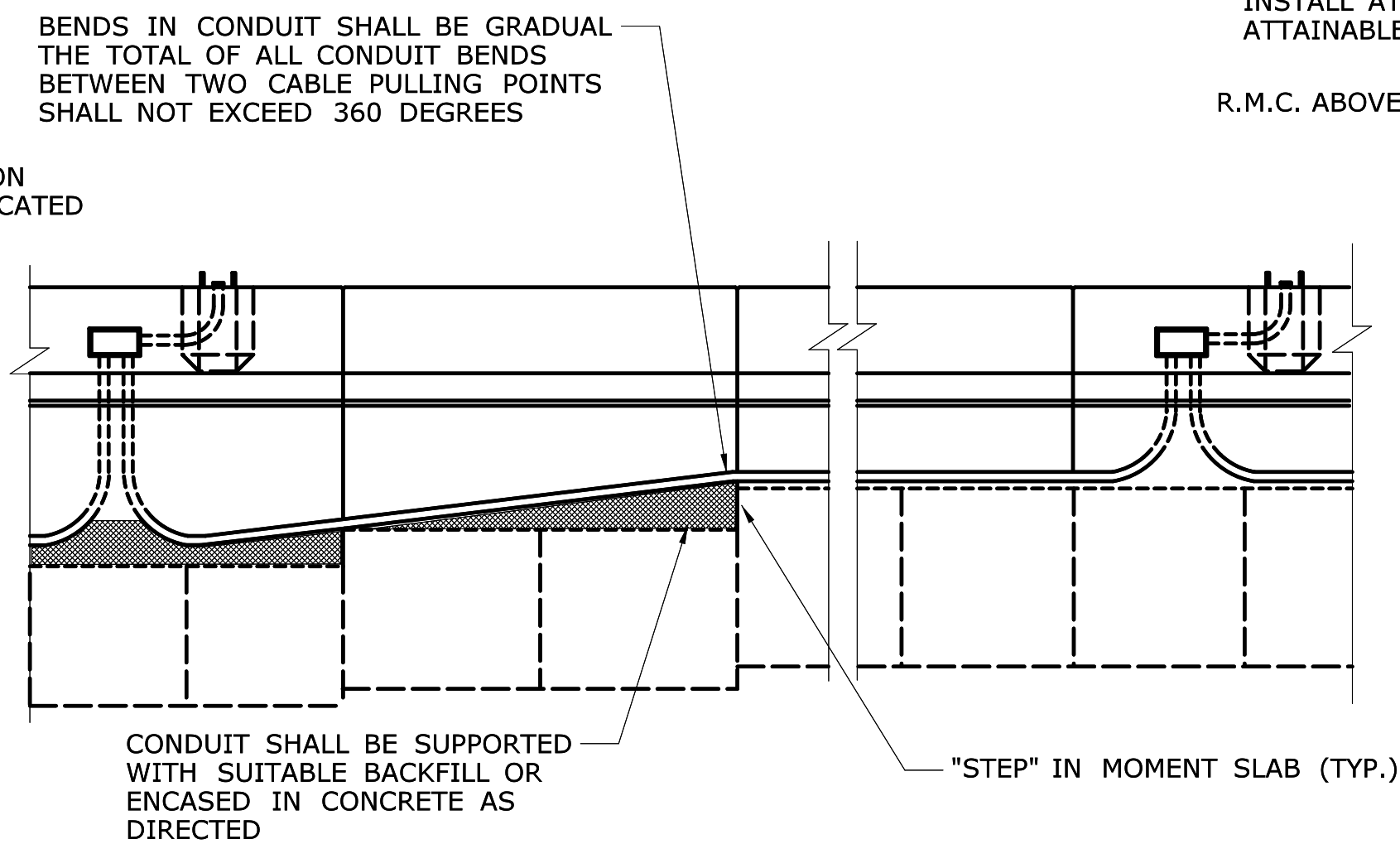
CONDUIT ENTRY INTO CAST IRON JUNCTION BOX



ANCHOR BASE LIGHT STANDARD MOUNTING HARDWARE



LIGHT STANDARD ON PARAPET WALL - VIEW B



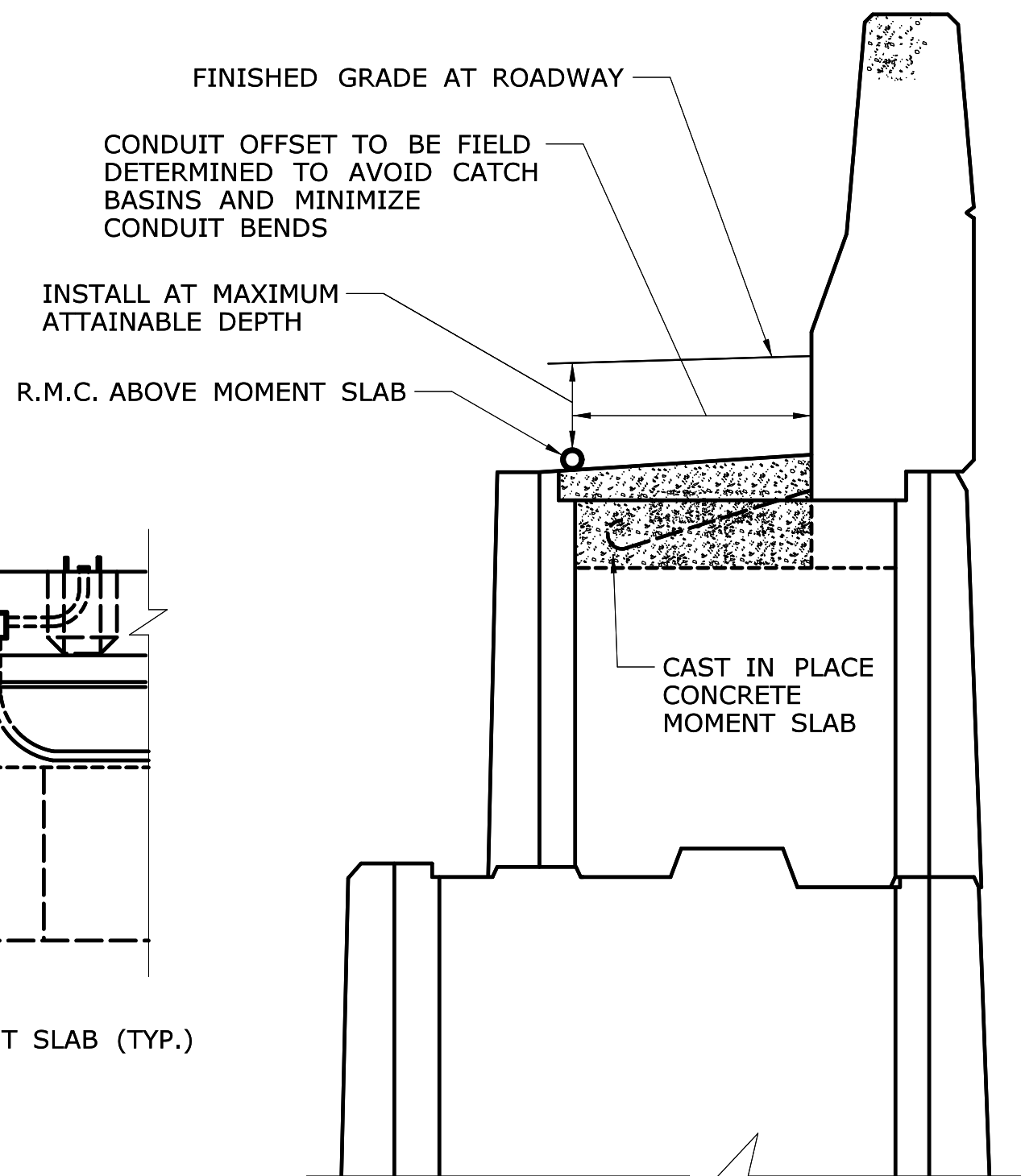
CONDUIT TREATMENT AT "STEPPED" MOMENT SLAB

GENERAL NOTES:

- 1) THE CONTRACTOR SHALL INSTALL THE R.M.C. IN SUCH A WAY AS TO MINIMIZE THE NUMBER OF BENDS IN THE CONDUIT BETWEEN ANY TWO PULLING POINTS. TOTAL BENDS IN ANY GIVEN CONDUIT RUN BETWEEN PULLING POINTS SHALL NOT EXCEED 360 DEGREES.
- 2) CONDUIT BENDS SHALL HAVE A RADIUS OF NOT LESS THAN 6 TIMES THE TRADE SIZE OF THE CONDUIT.
- 3) DIAMETER OF CONDUIT SHALL BE AS CALLED FOR ON STRUCTURE PLANS.
- 4) EXPANSION FITTINGS SHALL BE INSTALLED IN R.M.C. AT ALL EXPANSION JOINTS, AND SHALL CONFORM TO THE DETAILS AS SPECIFIED ON ELECTRICAL SHEET: "EXPANSION FITTINGS"
- 5) ALL CONDUIT SECTIONS AND ELBOWS SHALL BE JOINED WITH THREADED COUPLINGS. SET SCREW OR COMPRESSION COUPLINGS WILL NOT BE ALLOWED.
- 6) INSTALLATION OF JUNCTION BOXES, LIGHT STANDARD ANCHORAGES, LOCK NUTS AND BUSHINGS SHALL BE AS SHOWN ON ELECTRICAL DETAIL SHEET.
- 7) FOR LIGHT STANDARD LEVELING PAD DETAILS, PARAPET DETAILS, AND REINFORCING AT LIGHT STANDARD AND JUNCTION BOX, SEE APPROPRIATE STRUCTURE SHEETS.
- 8) SEE RETAINING WALL PLANS FOR SPECIFIC CONSTRUCTION DETAILS AND LOCATIONS.
- 9) ELECTRICAL INSTALLATION SIMILAR FOR ALL PROPRIETARY TYPE WALLS.
- 10) THE CONTRACTOR SHALL SUBMIT A COMPLETE SET OF WORKING DRAWINGS FOR REVIEW, WHICH SHALL SHOW THE PLACEMENT OF CONDUIT, JUNCTION BOXES AND LIGHT STANDARD ANCHORAGES ASSOCIATED WITH THE MANUFACTURED RETAINING WALL.

ANCHOR BOLT TABLE

POLE MTG. HEIGHT	BOLT CIRCLE DIA.	BOLT DIA.
30' (10m) - 35' (11m)	11" (280)	1" (M25)
40' (12m)	15" (380)	1" (M25)
50' (15m)	15" (380)	1 1/4" (M30)



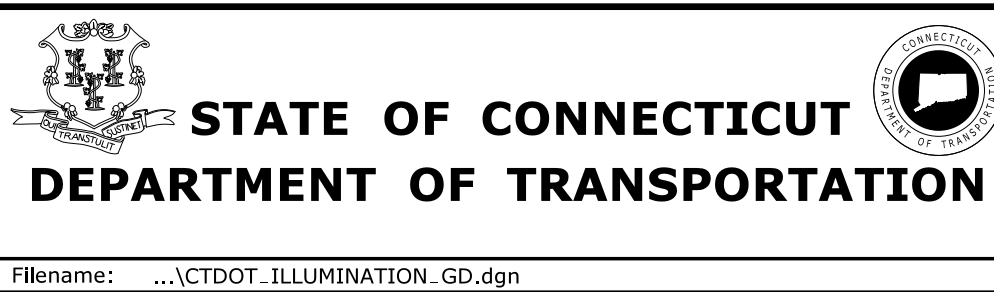
SECTION A

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REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 7/21/2014

DESIGNER/DRAFTER:
MSB
CHECKED BY:
JA
NO SCALE

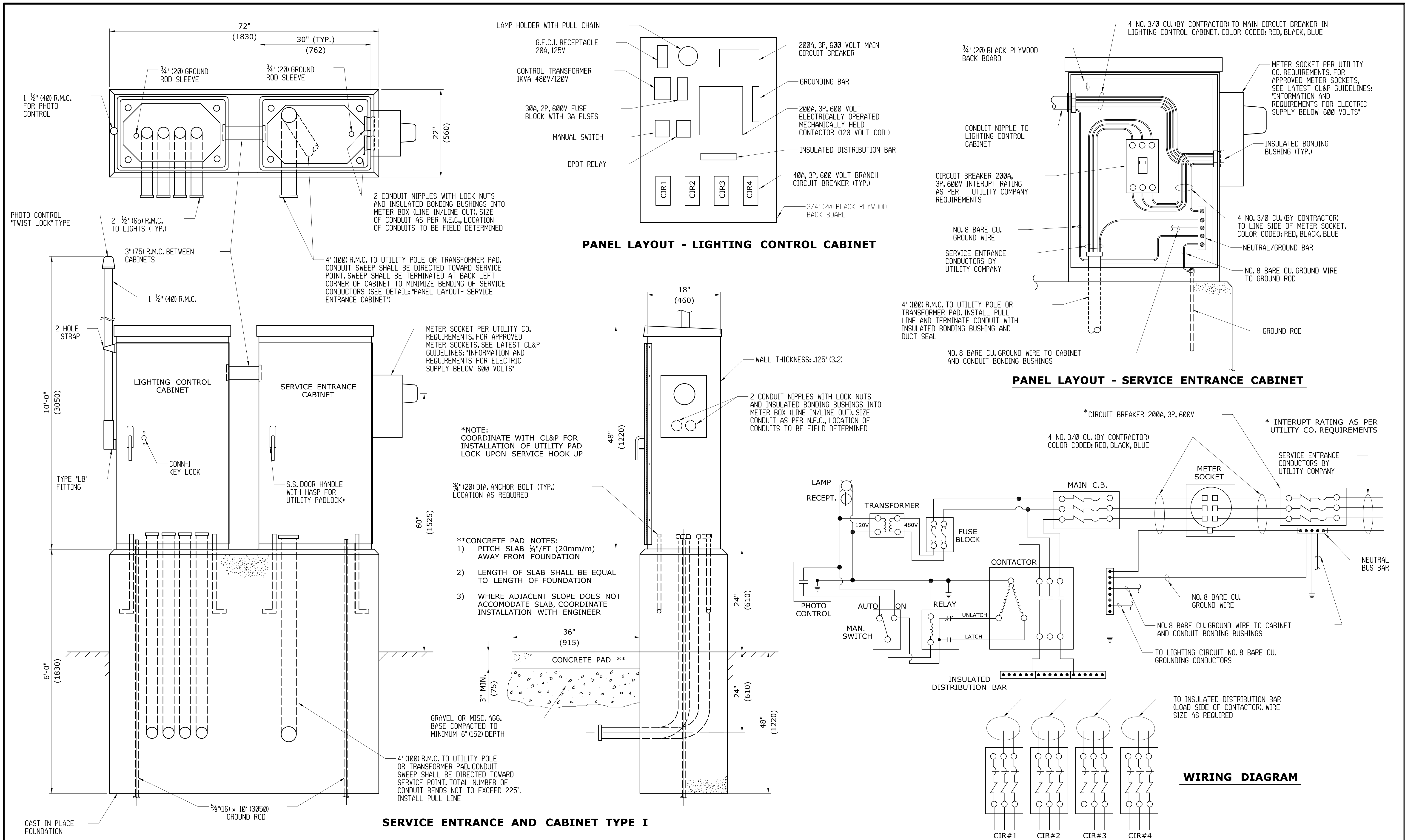



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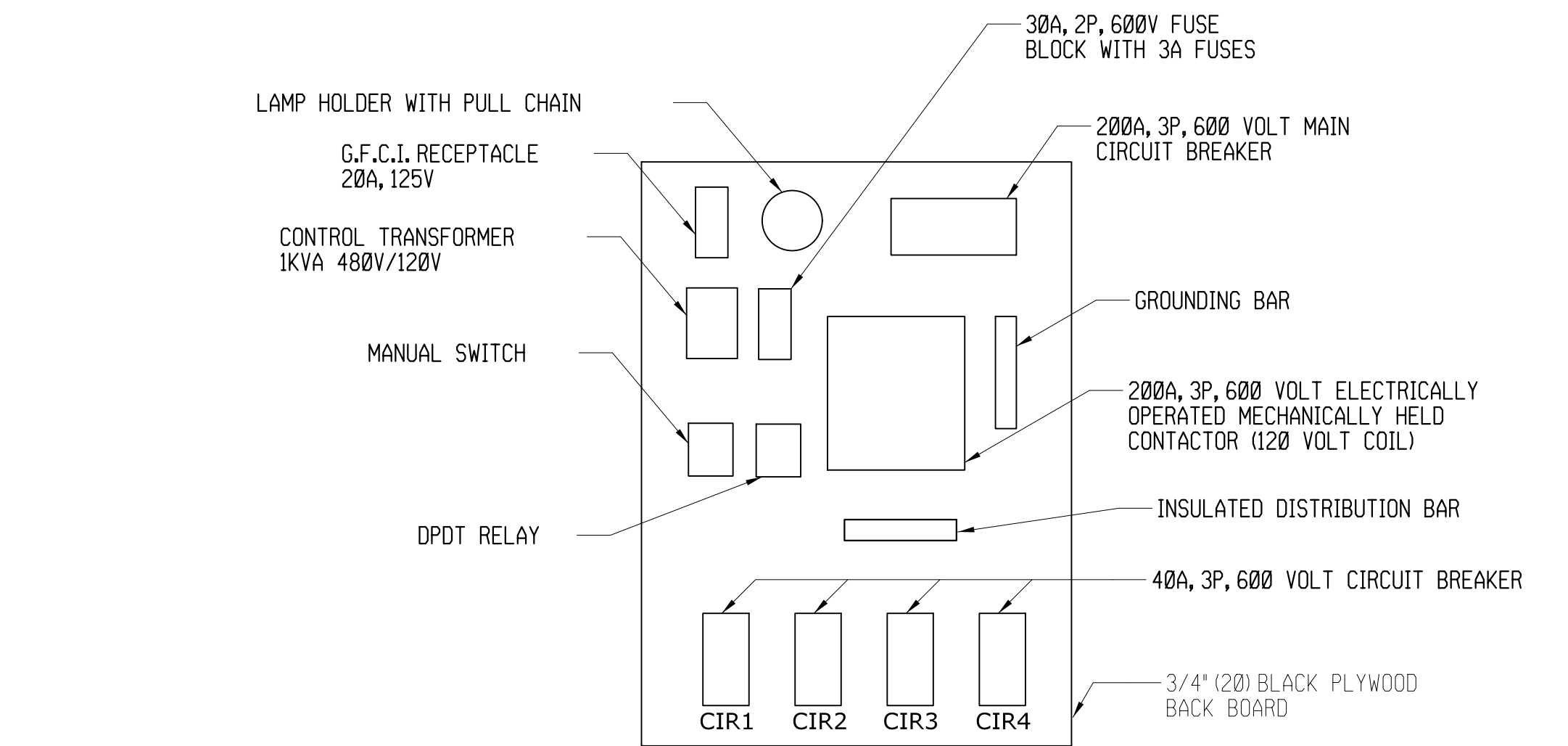
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TOWN:
-
DRAWING TITLE:
PRECAST RETAINING WALL ELECT. DETAILS

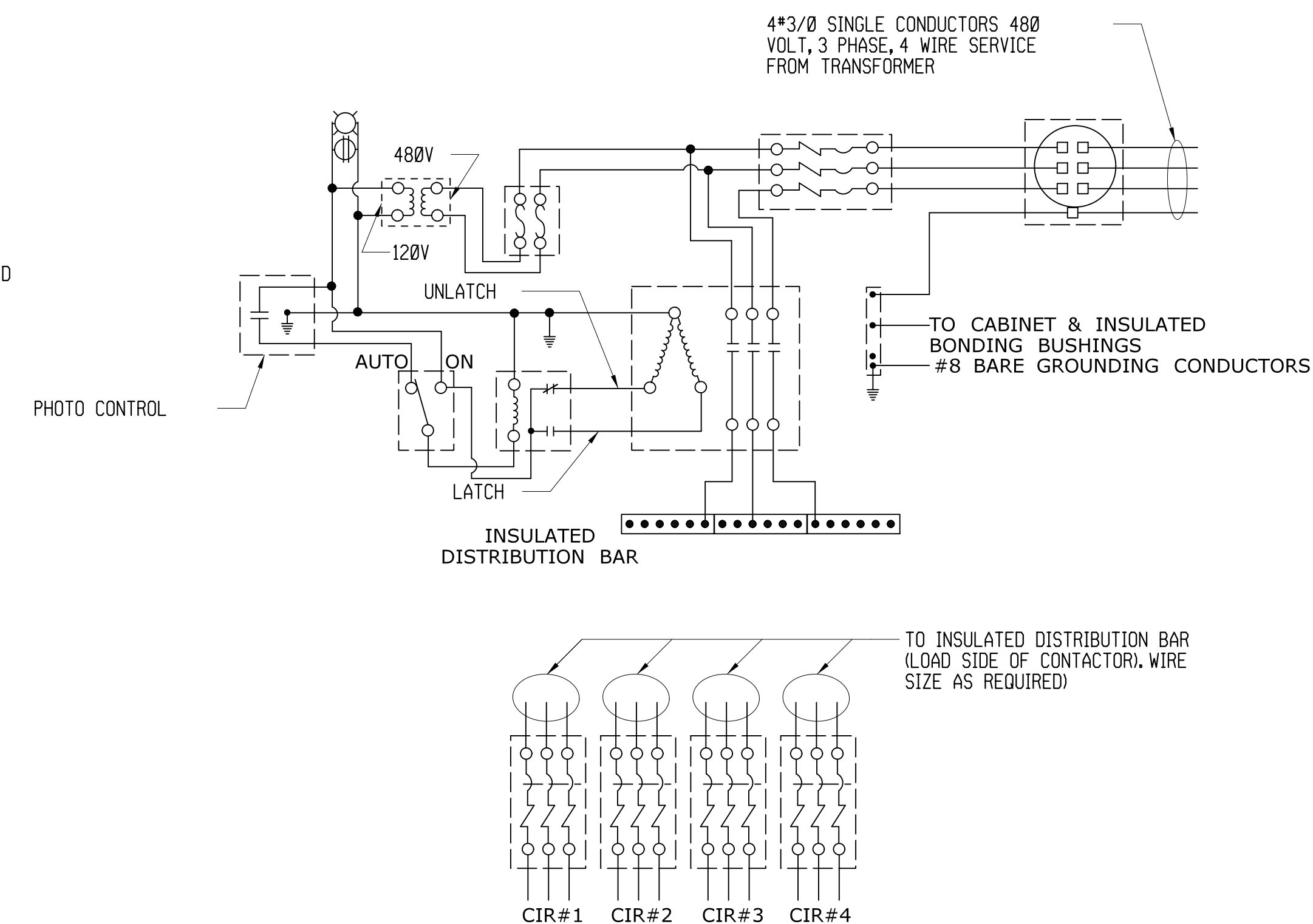
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DRAWING NO.
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SHEET NO.
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REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 7/21/2014	Filename: ...\\CTDOT_ILLUMINATION_GD.dgn	SERVICE ENTRANCE AND CABINET - TYPE 1			



PANEL LAYOUT - SERVICE CABINET



WIRING DIAGRAM

SERVICE ENTRANCE AND CABINET TYPE I

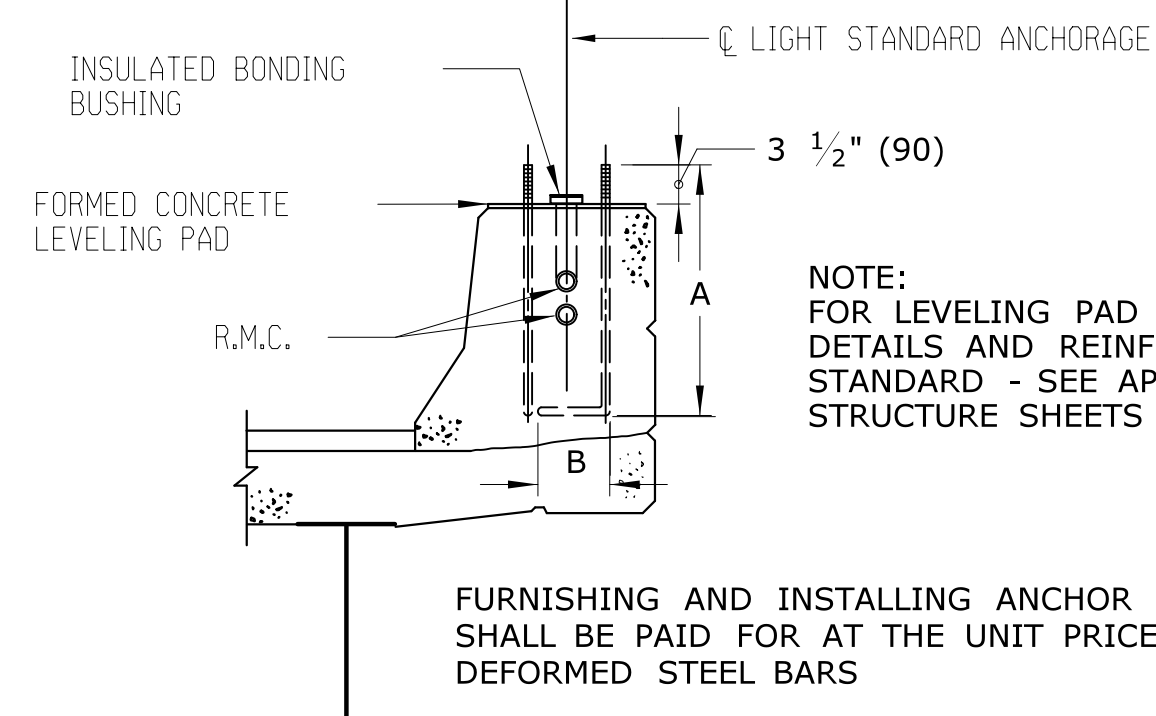
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[illegible]



ANCHOR BOLT DIMENSION TABLE				
BOLT CIRCLE DIAMETER	ANCH. BOLT DIAMETER	A	B	TYPICAL LIGHT STANDARD HEIGHT
11" (280)	1" (M24)	36" (915)	4" (102)	30' (11m) - 35' (11m)
15" (380)	1" (M24)	36" (915)	4" (102)	40' (12m)
15" (380)	1 1/4" (M30)	42" (1067)	6" (152)	50' (15m)

(WHERE APPLICABLE - SEE LIGHTING PLANS FOR
LIGHT STANDARD HEIGHT INFORMATION)



NOTE:
FOR LEVELING PAD DETAILS, PARAPET
DETAILS AND REINFORCING AT LIGHT
STANDARD - SEE APPROPRIATE
STRUCTURE SHEETS

FURNISHING AND INSTALLING ANCHOR BOLTS
SHALL BE PAID FOR AT THE UNIT PRICE BID FOR
DEFORMED STEEL BARS

CAST ALUMINUM BOLT COVER

S.S. HEX HEAD BOLT

HEX NUT, GALV.

LOCKWASHER, GALV.

FLATWASHER, GALV.

VIBRATION WASHER

FLATWASHER, GALV.

ANCHOR BASE CROSS SECTION THROUGH ONE CORNER

VIBRATION ISOLATION PAD 1/2" (12.5) THICK

3 1/2" (90)

ANCHOR BOLT

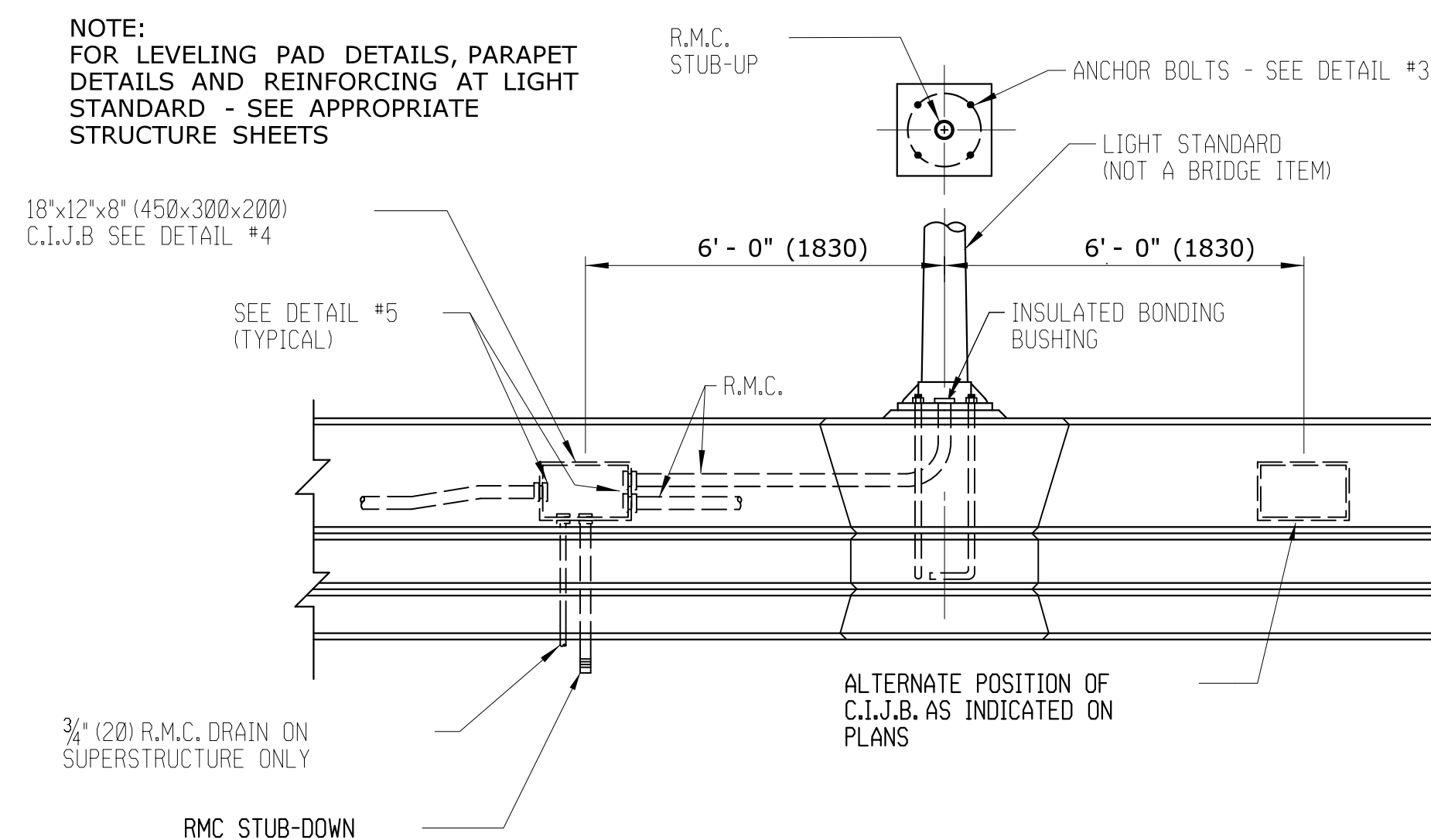
CONCRETE LEVELING PAD

CONCRETE PARAPET

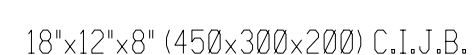
7) ANCHOR BASE LIGHT STANDARD MOUNTING HARDWARE



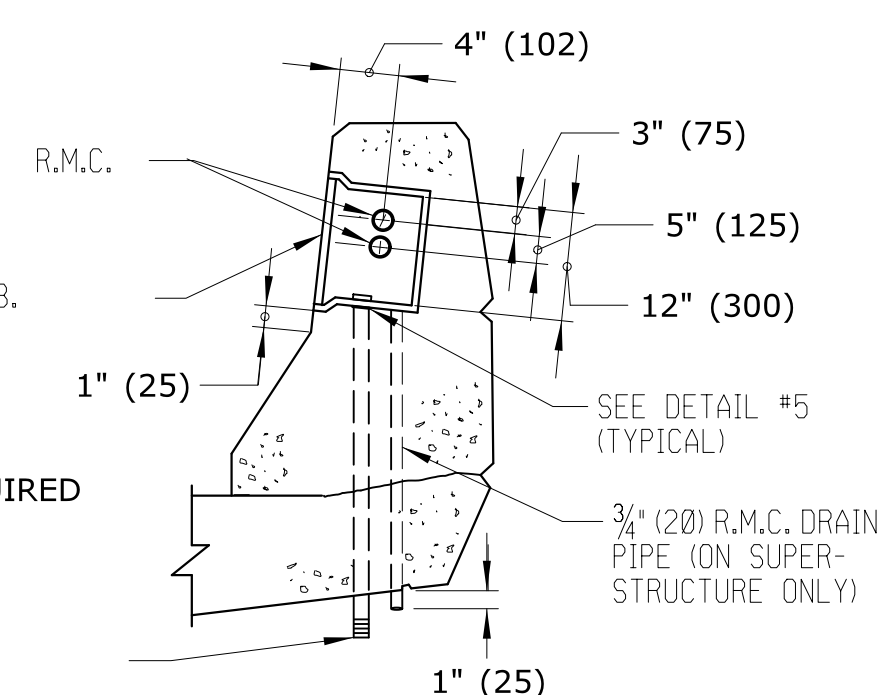
NOTE:
FOR LEVELING PAD DETAILS, PARAPET
DETAILS AND REINFORCING AT LIGHT
STANDARD - SEE APPROPRIATE
STRUCTURE SHEETS



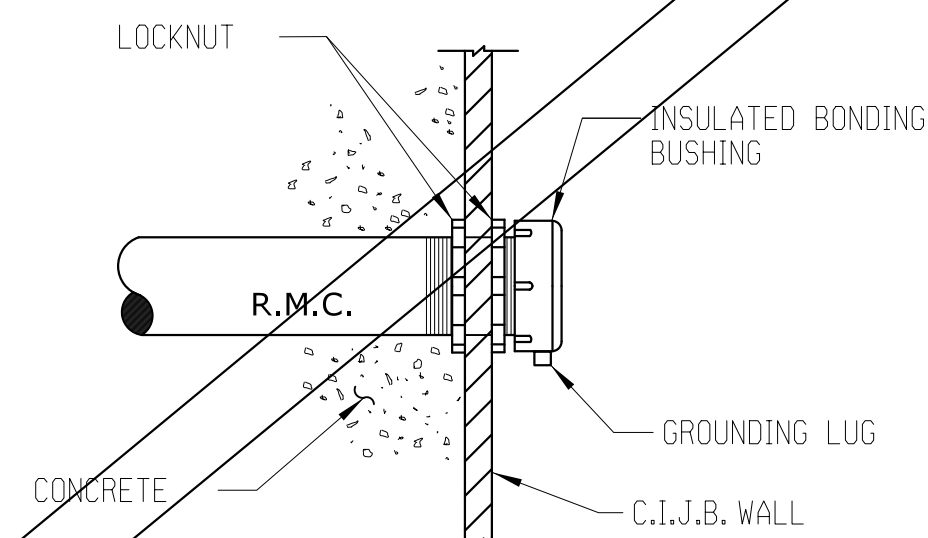
2) LIGHT STANDARD ON PARAPET WALL



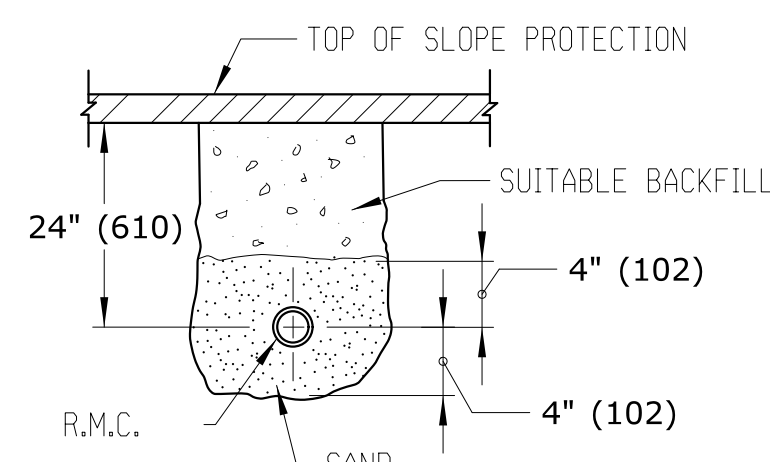
NOTE:
PROVIDE DRILLED SLIPHOLE
IN C.I.J.B. FOR R.M.C. AS REQUIRED



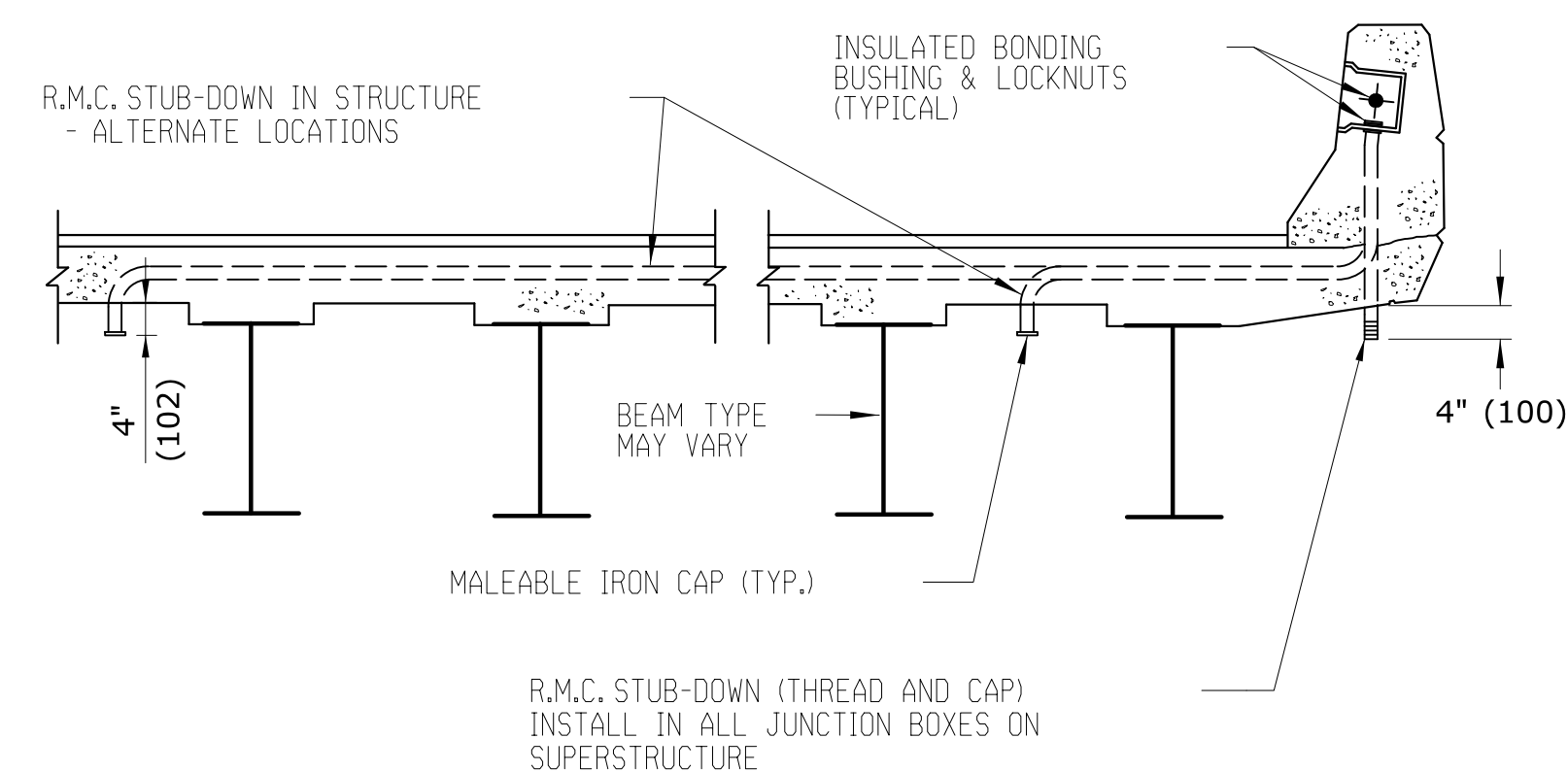
4) JUNCTION BOX INSTALLATION



~~5) CONDUIT ENTRY INTO CAST~~



6) RIGID METAL CONDUIT UNDER SLOPE PROTECTION



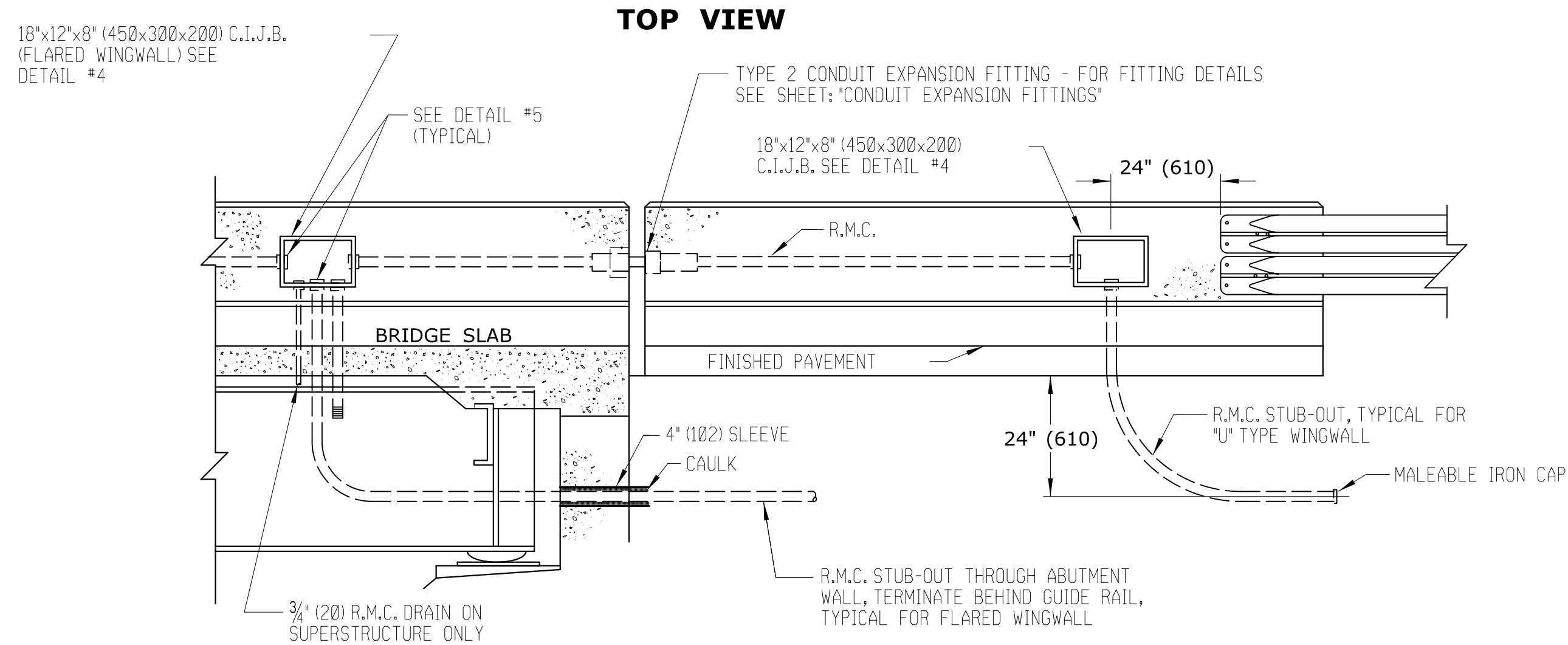
8) SERVICE TO LUMINAIRE UNDER STRUCTURE

NOTES:

- 1) SEE BRIDGE PLANS FOR SPECIFIC CONSTRUCTION DETAILS AND LOCATIONS.
- 2) DIAMETER OF RIGID METAL CONDUIT SHALL BE AS CALLED FOR ON BRIDGE PLANS.
- 3) R.M.C. STUB-UPS TO LIGHT STANDARDS, STUB-OUTS TO FILL, AND STUB-DOWNS TO UNDERBRIDGE LUMINAIRES, SHALL BE OF THE SAME DIAMETER AS THE R.M.C. CAST IN THE PARAPET WALL.
- 4) INSTALL ONE R.M.C. STUB-DOWN IN ALL JUNCTION BOXES ON SUPERSTRUCTURE. ADDITIONAL STUB-DOWNS SHALL BE INSTALLED WHERE INDICATED ON THE PLANS.
- 5) SEE BRIDGE DECK/SLAB PLANS FOR LIGHT STANDARD ANCHORAGE BOLT CIRCLE DIAMETER.
- 6) USE APPLICABLE DETAILS.

[illegible]

TYPE 2 CONDUIT EXPANSION FITTINGS SHALL BE REQUIRED AT ALL BRIDGE EXPANSION JOINTS. TYPE 2 CONDUIT EXPANSION FITTINGS ARE SUITABLE AT ALL BRIDGE JOINT LOCATIONS WITH TOTAL LONGITUDINAL THERMAL MOVEMENTS OF 8" (200mm) OR LESS AND TRANSVERSE MOVEMENTS OF 1.5" (38mm) OR LESS.



NOTE:
FOR LEVELING PAD DETAILS, PARAPET
DETAILS AND REINFORCING AT LIGHT
STANDARD - SEE APPROPRIATE
STRUCTURE SHEETS



(WHERE APPLICABLE - SEE LIGHTING PLANS FOR
LIGHT STANDARD HEIGHT INFORMATION)

NOTE:
FOR LEVELING PAD DETAILS, PARAPET
DETAILS AND REINFORCING AT LIGHT
STANDARD - SEE APPROPRIATE
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- 1) SEE BRIDGE PLANS FOR SPECIFIC CONSTRUCTION DETAILS AND LOCATIONS.
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- 3) R.M.C. STUB-UPS TO LIGHT STANDARDS, STUB-OUTS TO FILL, AND STUB-DOWNS TO UNDERBRIDGE LUMINAIRES, SHALL BE OF THE SAME DIAMETER AS THE R.M.C. CAST IN THE PARAPET WALL.
- 4) INSTALL ONE R.M.C. STUB-DOWN IN ALL JUNCTION BOXES ON SUPERSTRUCTURE. ADDITIONAL STUB-DOWNS SHALL BE INSTALLED WHERE INDICATED ON THE PLANS.
- 5) SEE BRIDGE DECK/SLAB PLANS FOR LIGHT STANDARD ANCHORAGE BOLT CIRCLE DIAMETER.
- 6) USE APPLICABLE DETAILS.

NOTE:
PROVIDE DRILLED SLIPHOLES
IN C.I.J.B. FOR R.M.C. AS REQUIRED

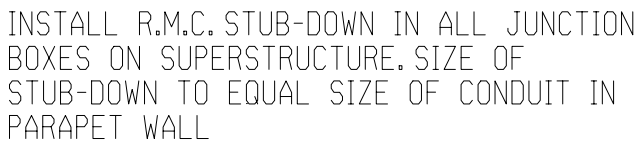

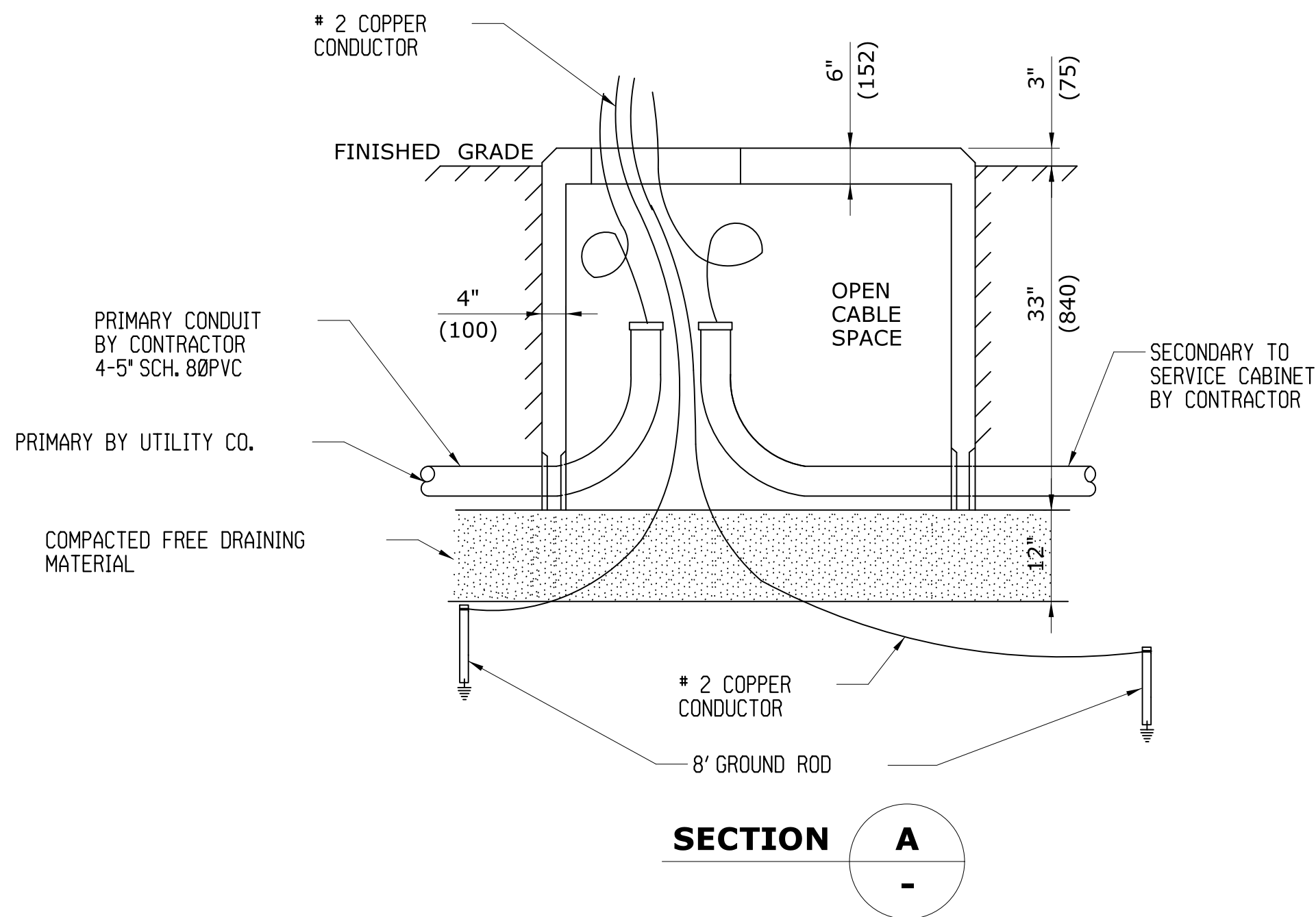
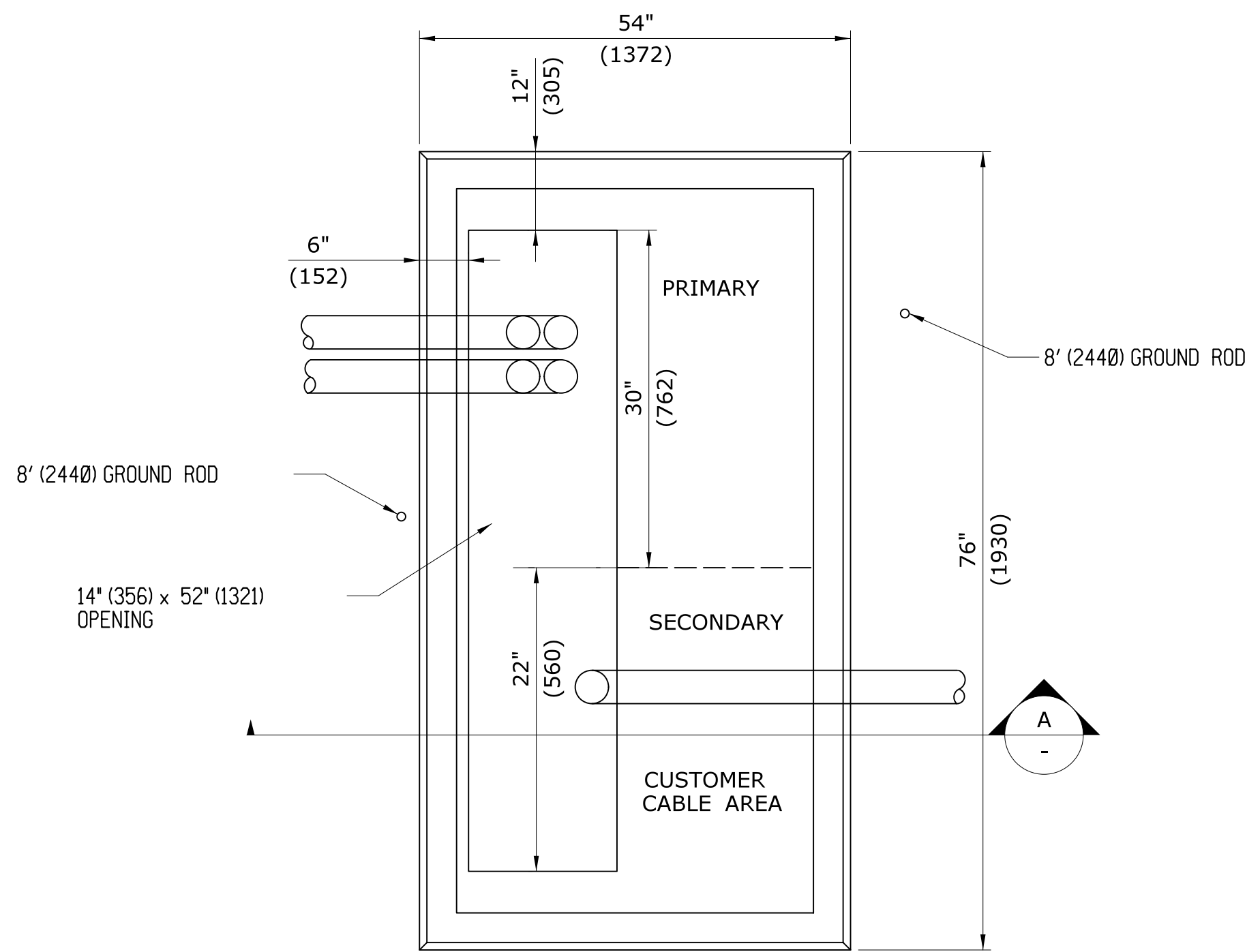
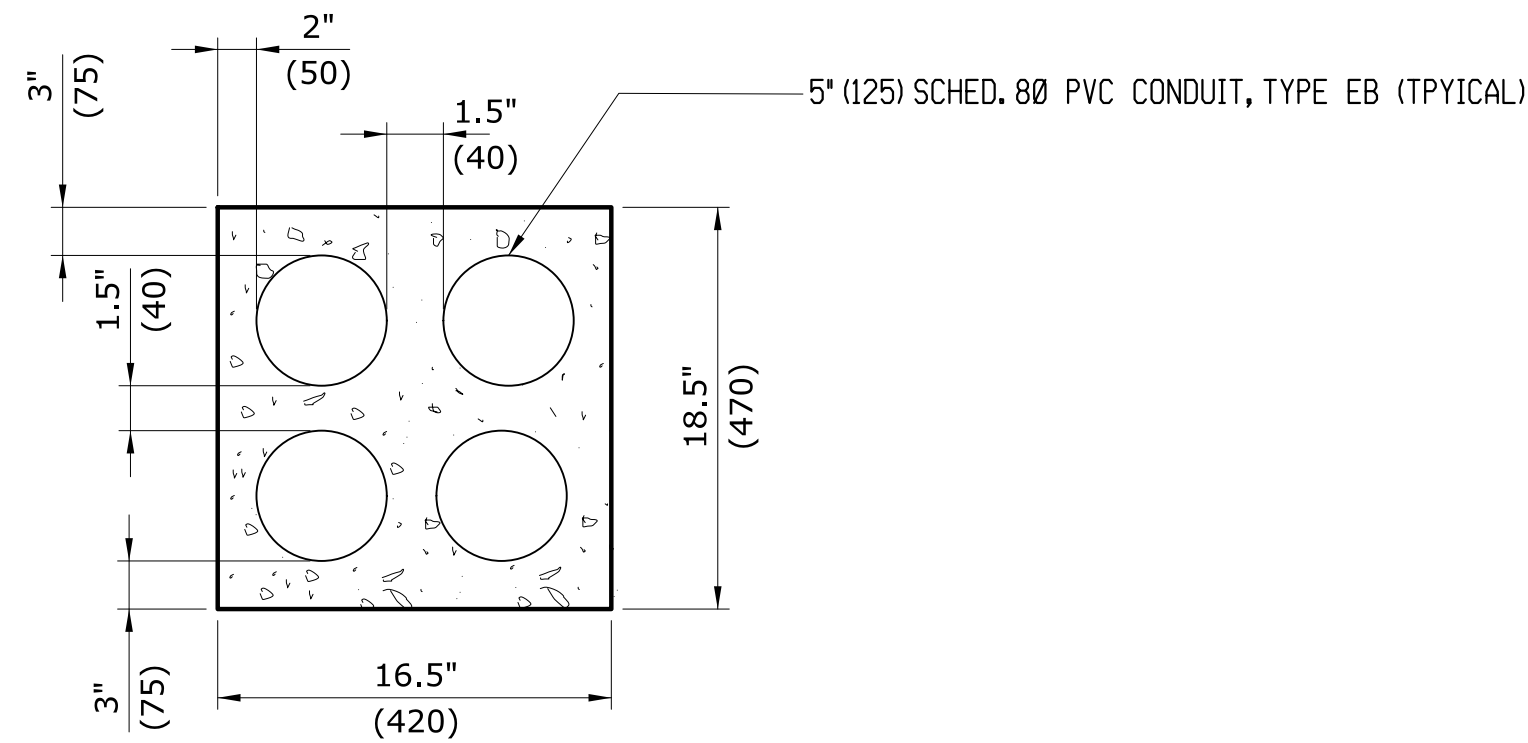


Diagram illustrating the connection between an R.M.C. (Reinforced Mortar Concrete) column and a C.I.J.B. (Cast in situ Reinforced Concrete) wall. The diagram shows the R.M.C. column embedded in the wall, with an INSULATED BONDING BUSHING and a LOCKNUT securing the connection. A GROUNDING LUG is attached to the wall, and the entire assembly is embedded in CONCRETE.

				THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.		DESIGNER/DRAFTER: MSB CHECKED BY: JA NO SCALE		 STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION Filename: ...\\CTDOT-ILLUMINATION_GD.dgn		SIGNATURE/ BLOCK: OFFICE OF ENGINEERING APPROVED BY: ISSUE DATE: 6/6/14		PROJECT TITLE: - - -		TOWN: - - - DRAWING TITLE: STRUCTURE RELATED ELECTRICAL DETAILS		PROJECT NO. - DRAWING NO. - SHEET NO.	
REV.	DATE	REVISION DESCRIPTION		SHEET NO.	Plotted Date: 7/21/2014												



PRECAST TRANSFORMER PAD



CONDUIT BANK CONSTRUCTION

CONDUIT BANK NOTES:

1. CONDUIT BANK INSTALLATION SHALL CONFORM TO NORTHEAST UTILITIES CO. SPECIFICATIONS AND REQUIREMENTS (DTR 73.209) OR MOST RECENT REVISION.
2. MINIMUM COVER FROM TOP OF CONDUIT BANK TO PAVEMENT OR EARTH SURFACE SHALL BE 24".
3. CONCRETE SHALL BE 2500 PSI, 1#2" MAXIMUM STONE, 6"-9" SLUMP OF SUCH CONSISTANCY THAT SPADING WILL ENSURE THE FLOW OF CONCRETE BETWEEN AND UNDER THE INDIVIDUAL DUCTS, BUT NOT SO WET AS TO FLOAT THE DUCTS. FOR TIER BUILDUP CONSTRUCTION A STIFFER CONSISTENCY SHOULD BE USED.

TRANSFORMER PAD NOTES:

1. TRANSFORMER PAD AND INSTALLATION SHALL CONFORM TO NORTHEAST UTILITIES CO. SPECIFICATIONS AND REQUIREMENTS (DTR 88.207) OR MOST RECENT REVISION.
2. CONCRETE 35 MPa AT 28 DAYS, STEEL # 4 BARS, ASTM A615 GRADE 40.

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